SERIES I FEBRUARY, 1903 NUMBER 4

BULLETIN

OF

NORTHWESTERN UNIVERSITY

1902-1903

EVANSTON—CHICAGO
PUBLISHED BY THE UNIVERSITY
1903

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COLLEGE OF LIBERAL ARTS
EVANSTON

MEDICAL SCHOOL
CHICAGO

LAW SCHOOL
CHICAGO

SCHOOL OF PHARMACY
CHICAGO

DENTAL SCHOOL
CHICAGO

SCHOOL OF MUSIC
EVANSTON

SCHOOLS OF THEOLOGY
EVANSTON

EVANSTON—CHICAGO

1902-1903

UNIVERSITY
OF CALIFORNIA
LIBRARY

CONTENTS.

	PAGE.
Calendar,	8
Announcements,	9
The Corporation,	15
Administrative Officers,	18
Officers of Instruction and Government,	19
University Council,	36
Organization and Government,	37
Charter,	38
Statutes,	43
The College of Liberal Arts,	48
Subjects Required for Admission,	53
Examination for Admission,	60
Admission from Accredited Schools,	60
Accredited Schools,	61
School of Correspondence,	65
Admission of Special Students,	65
Admission to Advanced Standing,	65
Residence,	66
Faculty Advisers,	66
Programs of Study,	67
Schedule of Required Studies,	67
Electives,	69
Schedule of Majors and Minors,	70
Courses of Instruction,	72
Professional Studies,	134
Graduate Work,	137
Registration,	138
Absences,	140
Examinations,	140
Grades of Scholarship,	141
Classification,	142
Degrees,	142
Government,	146
Athletics,	146
Musical Clubs,	148
Social Entertainments,	149
Religious Worship,	149
Christian Associations,	150
Students' Organizations,	150
University Settlement,	151
Fellowships,	151
Scholarships,	152
Prizes,	153

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PAGE.

Grounds and Buildings, - - - - 156
The Libraries, - - - - - - - 159
The Observatory, - - - - - - - 160
The Museums, - - - - - - - 161
The Laboratories, - - - - - - - 163
The Gymnasium, - - - - - - - 165
Fees and Expenses, - - - - - - - 166
Board and Lodging, - - - - - - 167
Loan Funds, - - - - - - - 168
Self-Support, - - - - - - 168

THE MEDICAL SCHOOL, - - - - - - 170
History, - - - - - - - 174
Buildings, - - - - - - - 175
Alumni Library, - - - - - - - 176
Gymnasium, - - - - - - - 176
Requirements for Admission, - - - - 177
Preparatory Medical Course, - - - - 177
Admission to Advanced Standing, - - - 178
Degrees, - - - - - - - 179
Methods of Instruction, - - - - - 180
Optional Courses, - - - - - - 182
Course of Study, - - - - - - 182
Departments, - - - - - - - 183
Summer School, - - - - - - - 210
Hospitals, - - - - - - - 210
Hospital Appointments, - - - - - 219
Hospital Quiz Class, - - - - - - 221
Requirements for Graduation, - - - - 221
Final Examinations, - - - - - - 222
Honors, - - - - - - - 222
Scholarships, - - - - - - - 222
Assignment of Seats, - - - - - - 222
Text-Books, - - - - - - - 223
Expenses, - - - - - - - 224

THE LAW SCHOOL, - - - - - - 226
School Accommodations, - - - - 227
Requirements for Admission, - - - - 228
Advanced Standing, - - - - 228
Special Students, - - - - - - 228
Course of Instruction, - - - - - 229
Courses not Counted toward a Degree, - - - 232
Courses in the College of Liberal Arts, - - 232
Selection of Courses, - - - - - 233
Special Training in Legal Writing and Speaking, and in the Practice of Law, - - - - - 233
Degrees, - - - - - - - 235
Scholarships, - - - - - - - 237
Prizes, - - - - - - - 237
Fees, - - - - - - - - 238

THE SCHOOL OF PHARMACY, - - - - - 239
Equipment, - - - - - - - 240
The School Year, - - - - - - 241

PAGE.

Admission Requirements, - - - - - 242
Courses of Instruction, - - - - - - 242
Degrees, - - - - - - - - 244
Separate Courses in any Department, - - - 245
Credits, - - - - - - - - 245
Employment, - - - - - - - - 245
Board and Rooms, - - - - - - 246
Expenses and Deposits, - - - - - 246

THE DENTAL SCHOOL, - - - - - 248

Requirements for Admission, - - - 249
Admission to Advanced Standing, - - 249
New Building, - - - - - - 249
Course of Study, - - - - - - 250
Methods of Instruction, - - - - - 251
Infirmary Clinics, - - - - - - 257
Requirements for Graduation, - - - - 258
Expenses, - - - - - - - 258

THE SCHOOL OF MUSIC, - - - - - - 260

Requirements for Admission, - - - - 262
Special Students, - - - - - 262
Courses of Study, - - - - - - 262
Certificates of Performance, - - - - - 266
Diplomas and Certificates, - - - - 266
Free Advantages, - - - - - - 267
Fees and Expenses, - - - - - - 267
Preparatory Department, - - - - - 269

ACADEMIES, - - - - - - - - 270

THE SCHOOLS OF THEOLOGY, - - - - - 273

Garrett Biblical Institute, - - - - - 273
Requirements for Admission, - - - - 274
Instruction, - - - - - - - 274
Courses of Study, - - - - - - 276
Method of Instruction, - - - - - 278
Libraries, - - - - - - - 278
Literary Societies, - - - - - - 278
Buildings, - - - - - - - 278
Financial Aid, - - - - - - - 279
Expenses, - - - - - - - 279
Norwegian-Danish Theological Department, - - - 280
Swedish Theological Department, - - - - 281

SCHOOL OF ORATORY, - - - - - - 308

CATALOGUE OF STUDENTS, - - - - - 311

LIST OF DEGREES AND PRIZES, - - - - 381

ALUMNI ASSOCIATIONS, - - - - - - 391

SUMMARY, - - - - - - - 395

1903

JANUARY.

Su	Mo	Tu	W	Th	Fr	Sa
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1904

JANUARY.

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NOVEMBER.

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ANNOUNCEMENTS FOR 1903-1904.

THE COLLEGE OF LIBERAL ARTS.

1903.

January 28,	Wednesday, Founders' Day.
January 29,	Thursday, Day of Prayer for Colleges.
February 4,	Wednesday, to February 11, Wednesday, Regular Mid-year Examinations.
February 12,	Thursday, Additional Examinations.
February 13,	Friday, **Second Semester Begins.**
February 16,	Monday, Second Examinations.
February 17, 18, 19,	Tuesday, Wednesday, Thursday, Registration Days.
February 17,	Tuesday, Class-work resumed, 8 o'clock A.M.
February 20,	Friday, Cleveland Prize Contest.
February 22,	Sunday, Washington's Birthday.
April 9,	Thursday Evening, to April 13, Monday Evening, Easter Recess.
April 13,	Monday, Second Examinations.
April 25,	Saturday, Last day for the presentation of theses for Advanced Degrees.
May 1,	Friday, Presentation of Harris Prize theses. Announcement of Kirk Prize Contestants.
May 23,	Saturday, Examination of candidates for Advanced Degrees.
May 30,	Saturday, Memorial Day.
June 3,	Wednesday, to June 11, Thursday, Regular Examinations.
June 12,	Friday, Additional Examinations.
June 14,	Sunday, Baccalaureate Address.
June 15 and 16,	Monday and Tuesday, Examinations for Admission.
June 16,	Tuesday, Meeting of the Board of Trustees.
June 16,	Tuesday, Kirk Prize Oratorical Contest.
June 17,	Wednesday, Annual Meeting of the Phi Beta Kappa Society.
June 17,	Wednesday, Meeting of the Alumni Association.

June 17,	Wednesday, Annual Address before the Phi Beta Kappa Society.
June 18,	Thursday, **Forty-fifth Commencement.**
June 19,	Friday, to September 21, Monday, Summer Vacation.
September 21,	Monday, **First Semester Begins.**
September 21 and 22,	Monday and Tuesday, Examinations for Admission.
September 22, 23, 24,	Tuesday, Wednesday, Thursday, Registration Days.
September 23,	Wednesday, Second Examinations.
September 24,	Thursday, Class-work begins, 8 o'clock A.M.
November 25,	Wednesday evening to November 30, Monday morning, Thanksgiving Recess.
December 18,	Friday evening, to January 5, 1904, Tuesday morning, 8 o'clock, Christmas Recess.
1904.	
January 28,	Thursday, Founders' Day.
January 28,	Thursday, Day of Prayer for Colleges.
February 3,	Wednesday, to February 10, Wednesday, Regular Mid-year Examinations.
February 11,	Thursday, Additional Examinations.
February 12,	Friday, **Second Semester Begins.**
February 15,	Monday, Second Examinations.
February 16, 17, 18,	Tuesday, Wednesday, Thursday, Registration Days.
February 16,	Tuesday, Class-work resumed, 8 o'clock A.M.
February 19,	Friday, Sargent Prize Contest.
February 22,	Monday, Washington's Birthday.
March 31,	Thursday evening, to April 4, Monday evening, Easter Recess.
April 4,	Monday, Second Examinations.
April 23,	Saturday, Last day for the presentation of theses for Advanced Degrees.
May 2,	Monday, Presentation of Harris Prize theses.
May 6,	Friday, Kirk Prize Contestants announced.
May 21,	Saturday, Examination of candidates for Advanced Degrees.
May 30,	Monday, Memorial Day.
June 1,	Wednesday, to June 9, Thursday, Regular Examinations.
June 10,	Friday, Additional Examinations.
June 12,	Sunday, Baccalaureate Address.

June 13 and 14,	Monday and Tuesday, Examinations for Admission.
June 14,	Tuesday, Meeting of the Board of Trustees.
June 14,	Tuesday, Kirk Prize Oratorical Contest.
June 15,	Wednesday, Annual Meeting of the Phi Beta Kappa Society.
June 15,	Wednesday, Meeting of the Alumni Association.
June 16,	Thursday, **Forty-Fifth Commencement.**
June 17,	Friday, to September 19, Monday, Summer Vacation.

THE MEDICAL SCHOOL.

1903.

October 5,	Monday, Examination for Admission.
October 6,	Tuesday, **First Semester Begins.** Opening Exercises, 7:30 P.M.
October 2 and 3,	Examinations for Conditioned Students.
November 26,	Thursday, Thanksgiving Recess.
December 19,	Saturday, to January 2, 1904, Saturday, Christmas Recess.

1904.

February 1, 2, 3, 4, 5, 6,	Examinations for First Semester.
February 8,	Monday, **Second Semester Begins.**
February 22,	Monday, Washington's Birthday Recess.
May 30,	Monday, Examinations Begin for Second Semester.
June 13 and 14,	Monday and Tuesday, Examination for Admission at College of Liberal Arts.
June 15,	Wednesday, Alumni Association Meeting, Davis Hall.
June 16,	Thursday, **Commencement Day.**

THE LAW SCHOOL.

1903.

September 21,	Monday, Registration Day for New Students.
September 22,	Tuesday, Registration Day for Applicants for Advanced Standing.
September 23,	Wednesday, Registration Day for Other Students.
September 24,	Thursday, **First Semester Begins.**
November 26,	Thursday, Thanksgiving Recess.
December 19,	Saturday, to January 4, 1904, Monday, Christmas Recess.

1904.

January 28,	Thursday, Lectures Close.
February 1,	Monday, Examinations Begin.
February 6,	Saturday, **First Semester Ends.**
February 8,	Monday, **Second Semester Begins.**
February 12,	Friday, Lincoln's Birthday.
May 22,	Saturday, Lectures Close.
May 27,	Thursday, Examinations begin.
June 17,	Thursday, **Commencement Day.**

THE SCHOOL OF PHARMACY.

1903.

January 5,	Monday, **Winter Term Begins.**
March 28,	Saturday, Senior Laboratory Courses of Winter Term End.
March 30,	Monday, Winter Term Senior Examinations Begin.
April 4,	Saturday, Junior Laboratory Courses of Winter Term End.
April 7,	Tuesday, Spring Term's Work in the Course for the Degree of Pharmaceutical Chemist Begins.
April 8,	Wednesday, Junior Examinations of the Winter Term Begin.
April 13,	Monday, **Spring Term Begins.**
June 13,	Saturday, Spring Term's Work in the Course for the Degree of Pharmaceutical Chemist Begins.
June 18,	Thursday, **Annual Commencement** of the University.
July 18,	Saturday, Spring Term Laboratory Courses End.
July 20,	Monday, Spring Term Examinations Begin.
July 24,	Friday, Spring Term Ends.
September 7,	Monday, **Fall Term Begins.**
December 12,	Saturday, Fall Term Laboratory Courses End.
December 14,	Monday, Fall Term Examinations Begin.
December 18,	Friday, **Graduation Exercises.**

1904.

January 4,	Monday, **Winter Term Begins.**
April 4,	Monday, Laboratory Courses End.
April 8,	Friday, Examinations Begin.
April 15,	Friday, **Graduation Exercises.**
April 20,	Wednesday, **Spring Term Begins.**

THE DENTAL SCHOOL.

1903.

September 28,	Monday, to October 10, Saturday, Examination of Credentials for Admission.
September 30,	Wednesday, Opening Exercises at 7:30 P. M.
October 1,	Thursday, to October 15, Thursday, Examinations for Advanced Standing.
November 26,	Thursday, Thanksgiving Recess.
December 19,	Saturday, to January 5, 1904, Tuesday, Christmas Recess.

1904.

January 18,	Monday, **First Semester Ends.**
January 18,	Monday, to January 25, Monday, Mid-Term Examinations.
January 25,	Monday, **Second Semester Begins.**
April 11,	Monday, to April 16, Saturday, Senior Examinations.
April 18,	Monday, to April 26, Tuesday, Junior and Freshman Examinations.
April 27,	Wednesday, **Commencement Day.**

THE SCHOOL OF MUSIC.

The scholastic year begins and ends with that of the College of Liberal Arts, but it is divided into **Four Terms of Nine Weeks** each instead of **Two Semesters.**

1903.

September 22 and 23,	Tuesday and Wednesday, Examination for Admission to Regular Courses.
September 24,	Thursday, **First Term Begins.**
November 25,	Wednesday evening, **First Term Ends.** Thanksgiving Recess.
November 30,	Monday, **Second Term Begins.**
December 23,	Wednesday, Christmas Recess, to Monday morning, January 4, 1904.

1904.

January 28,	Thursday, Day of Prayer for Colleges.
February 4,	Thursday, to February 10, Wednesday, Regular Examinations.
February 10,	Wednesday evening, **Second Term Ends.**
February 11,	Thursday, **Third Term Begins.**

April 13,	Wednesday evening, **Third Term Ends.**
April 14,	Thursday, **Fourth Term Begins.**
June 3,	Friday, to June 11, Thursday, Regular Examinations.
June 9,	Thursday, Annual Concert and Commencement Exercises.
June 15,	Wednesday evening, **Fourth Term Ends.**
September 20 and 21,	Tuesday and Wednesday, Examination for Admission to Regular Courses.
September 22,	Thursday, **First Term Begins.**

GARRETT BIBLICAL INSTITUTE.

1903.	
January 30,	Friday, **Close of First Semester.**
February 3,	Tuesday, **Second Semester Begins.**
May 24,	Sunday, to May 27, Wednesday, **Commencement.**
September 9,	Wednesday, Registration Day.
October 1,	Thursday, **First Semester Begins.**
December 23,	Wednesday, to January 12, 1904, Tuesday, Christmas Recess.
1904.	
January 29,	**First Semester Ends.**
February 2,	Tuesday, **Second Semester Begins.**
May 1,	Sunday, to May 4, Wednesday, **Commencement.**

CORPORATION.

OFFICERS.

William Deering,	President.
Oliver Harvey Horton, LL.D.,	First Vice-President.
H. H. C. Miller, A.M.,	Second Vice-President.
Frank Philip Crandon, A.M.,	Secretary.
Robert D. Sheppard, A.M., D.D.,	Treasurer and Business Manager.
William A. Dyche, A.M.,	Assistant Secretary.

TRUSTEES.

TERM EXPIRES IN 1903.

Oliver Harvey Horton, LL.D.,	Chicago.
William Deering,	Evanston.
Merritt Caldwell Bragdon, A.M., M.D.,	Evanston.
Mary Raymond Shumway,	Evanston.
William Alden Fuller,	Chicago.
James Bartlett Hobbs,	Chicago.
Frank Philip Crandon, A.M.,	Evanston.
Lorin Cone Collins, A.M.,	Chicago.
William Andrew Dyche, A.M.,	Evanston.

TERM EXPIRES IN 1904.

Robert Dickinson Sheppard, A.M., D.D.,	Evanston.
Josiah J. Parkhurst,	Evanston.
Frank O. Lowden, A.B., LL.B.,	Chicago.
David McWilliams,	Dwight.
Charles Pinckney Wheeler, A.M.,	Evanston.
Cornelia Grey Lunt,	Evanston.
*Gustavus Franklin Swift,	Chicago.
Henry Howard Gage,	Evanston.
Lyman Judson Gage,	New York City.

TERM EXPIRES IN 1905.

Norman Waite Harris,	Chicago.
Nathan Smith Davis, Jr., A.M., M.D.,	Chicago.
Harvey Bostwick Hurd, LL.D.,	Evanston.
John Richard Lindgren,	Evanston.

*Deceased, March 29, 1903.

H. H. C. Miller, A.M., - - - - - Evanston.
Elbert Henry Gary, - - - - New York City.
Milton Hollyday Wilson, - - - - Evanston.
Alexander Hamilton Revell, - - - - Chicago.
Henry Sherman Boutell, A.M., - - - Chicago.

TERM EXPIRES IN 1906.

Nathan Smith Davis, M.D., LL.D., - - Chicago.
Henry Sargent Towle, LL.B., - - - - Chicago.
Harlow Niles Higinbotham, - - - Chicago.
Charles Bowen Congdon, - - - - Evanston.
James A. Patten, - - - - - Evanston.
Charles T. Boynton, - - - - - Evanston.
William H. Henkle, - - - - - Chicago.
George Peck Merrick, B.L,, LL.B., - - - Evanston.
Edmund Janes James, Ph.D., LL.D., - - - Evanston.

ELECTED BY CONFERENCES.

ROCK RIVER.

Rev. John Patrick Brushingham, A.M., D.D., - - Chicago.
Rev. Joseph T. Ladd, - - - - - - Elgin.

DETROIT.

Rev. Joseph Flintoft Berry, D.D., - - - Chicago.

CENTRAL ILLINOIS.

Rev. George R. Palmer, A.M., D.D., - - Onarga.
Rev. J. Wellington Frizzelle, - - - Rock Island.

MICHIGAN.

Rev. Edward George Lewis, S.T.B., D.D., - Grand Rapids.
Rev. W. A. Frye, - - - - Lansing, Mich.

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SPECIAL LECTURERS.

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LOUIS LEE DENT,
Lecturer on Mortgages and on General Practice, Law School.

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MITCHELL DAVIS FOLLANSBEE, A.B., LL.B.,
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Lecturer on Legal Ethics and International Law, Law School.

HENRY CLAY HALL, B.S., LL.B.,
Lecturer on Insurance, Law School.

TUTORS, ASSISTANTS, AND DEMONSTRATORS.

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CHARLES H. CONVERSE, - - - - Irving Park.
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LIBRARIANS AND LIBRARY ASSISTANTS.

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Cataloguer, College of Liberal Arts.

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MARGARET ISABELLE PLANT, - - 87 Lake St., Chicago.
Stenographer and Librarian, School of Pharmacy.

LEROY LEVI TODD, - - 87 Lake St., Chicago.
Librarian, Law School.

KOTZIE WILLARD, - - - 3620 Forrest Ave., Chicago.
Librarian, Dental School.

OTHER OFFICERS.

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Stenographer in President's Office.

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Secretary to the President.

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VACLAV KAREL FROULA, A.B., - 911 Greenleaf St., Evanston.
University Examiner.

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Clerk, Medical School.

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Clerk in Business Office.

UNIVERSITY COUNCIL.

Edmund Janes James, Ph.D., LL.D., *President.*

COLLEGE OF LIBERAL ARTS.

Daniel Bonbright, LL.D.
Thomas Franklin Holgate, Ph.D.

MEDICAL SCHOOL.

Nathan Smith Davis, Jr., A.M., M.D.
John Harper Long, M.S., Sc.D.

LAW SCHOOL.

John Henry Wigmore, A.M., LL.B.
Henry Schofield, A.M., LL.B.

SCHOOL OF PHARMACY.

Oscar Oldberg, Pharm.D.

DENTAL SCHOOL.

Greene Vardiman Black, M.D., D.D.S., LL.D.
William Edward Harper, D.D.S.

SCHOOL OF MUSIC.

Peter Christian Lutkin, Mus.D.
Harold Everard Knapp.

NORTHWESTERN UNIVERSITY.

The University comprises the following departments, each having a distinct Faculty of Instruction:

THE COLLEGE OF LIBERAL ARTS,
THE MEDICAL SCHOOL,
THE LAW SCHOOL,
THE SCHOOL OF PHARMACY,
THE DENTAL SCHOOL,
THE SCHOOL OF MUSIC.

The College of Liberal Arts and the School of Music are in Evanston; the professional schools are in Chicago.

The University maintains the following non-degree-conferring departments:

THE ACADEMY, at Evanston.
GRAND PRAIRIE SEMINARY, at Onarga, Illinois.

The Cumnock School of Oratory is conducted on the college campus under the auspices of the University.

Garrett Biblical Institute, a theological school established on its own foundation and under separate management, is located on the college campus, and is in close coöperation with the University. The Norwegian-Danish Theological School is affiliated with the Institute. The Swedish Theological Seminary is also located on the college campus.

Evanston is situated on the shore of Lake Michigan, twelve miles north from the center of Chicago. It has a population of about twenty thousand. The charter of the University prohibits the sale of intoxicating liquors within four miles of the University.

ORGANIZATION AND GOVERNMENT.

A meeting to consider the project of founding a university in the vicinity of Chicago was held in that city on May 31,

1850. It was unanimously resolved that "the interests of Christian learning demand the immediate establishment of a University in the Northwest." A committee was appointed to secure a charter from the General Assembly of Illinois; the charter was approved by the Governor on January 28, 1851.

The College of Liberal Arts was the first department of the University to be organized. It was formally opened to students on November 5, 1855. The Medical School became a department of the University in 1869, the Law School in 1873, the School of Pharmacy in 1887, the Dental School in 1888. Garrett Biblical Institute since its foundation has served as the Theological School of the University.

The government of the University is committed to a Board of forty-four Trustees. The board has the power to elect professors and instructors, manage the property of the Corporation, and determine the general policy of the institution. It delegates certain powers to subordinate boards:

FIRST—To the Executive Committee are committed the conduct and management of the business of the University during the intervals between the meetings of the Board of Trustees.

SECOND—To the Faculties is committed the control of the instruction and discipline of the several schools, subject to the approval of the Trustees.

UNIVERSITY CHARTER.

The charter granted to the University, in 1851, reads as follows:

SECTION I. *Be it enacted by the People of the State of Illinois, represented in the General Assembly:* That Richard Haney, Philo Judson, S. P. Keyes, and A. E. Phelps, and such persons as shall be appointed by the Rock River Annual Conference of the Methodist Episcopal Church to succeed them in the said office; Henry Summers, Elihu Springer, David Brooks, and Elmore Yocum, and such persons as shall be appointed by the Wisconsin Annual Conference of said church to succeed them; four individuals, if chosen, and such persons as shall be appointed to succeed them by the Michigan Annual Conference of said church; four individuals, if chosen, and such persons as shall be appointed to succeed them by the North Indiana

Annual Conference of said church; H. W. Reed, I. I. Stewart, D. N. Smith, and George M. Teas, and such persons as shall be appointed to succeed them by the Iowa Annual Conference of said church; four individuals, and if chosen, such persons as shall be appointed to succeed them by the Illinois Annual Conference of said church; A. S. Sherman, Grant Goodrich, Andrew J. Brown, John Evans, Orrington Lunt, J. K. Botsford, Joseph Kettlestrings, George F. Foster, Eri Reynolds, John M. Arnold, Absalom Funk, and E. B. Kingsley, and such persons, citizens of Chicago or its vicinity, as shall be appointed by the Board of Trustees hereby constituted to succeed them, be, and they are hereby created and constituted a body politic and corporate, under the name and title of the *Trustees of the Northwestern University*, and henceforth shall be styled and known by that name, and by that name and style to remain and have perpetual succession, with power to sue and be sued, plead and be impleaded, to acquire, hold, and convey property, real, personal, or mixed, in all lawful ways; to have and use a common seal and to alter the same at pleasure; to make and alter from time to time such by-laws as they may deem necessary for the government of said institution, its officers and servants, provided such by-laws are not inconsistent with the constitution and laws of this State and of the United States, and to confer on such persons as may be considered worthy such academical or honorary degrees as are usually conferred by similar institutions.

SECTION II. The term of office of said Trustees shall be four years, but that of one member of the Board for each conference enjoying the appointing power by this act, and the term of three of the members whose successors are to be appointed by the Board hereby constituted, shall expire annually; the term of each member of the Board herein named to be fixed by lot at the first meeting of said Board, which Board shall, in manner above specified, have perpetual succession, and shall hold the property of said institution solely for the purposes of education, and not as a stock for the individual benefit of themselves or any contributor to the endowment of the same; and no particular religious faith shall be required of those who become students at the institution. Nine members shall constitute a quorum for the transaction of any business of the Board, except the appointment of President or Professor, or the establishment of chairs in said institution, and the enactment of by-laws for its government, for which the presence of a majority of the Board shall be necessary.

SECTION III. Said Annual Conferences of the Methodist Episcopal Church, under whose control and patronage said University is placed, shall each also have the right to appoint annually

two suitable persons, members of their own body, visitors to said University, who shall attend the examination of students, and be entitled to participate in the deliberations of the Board of Trustees, and enjoy all the privileges of members of said Board except the right to vote.

SECTION IV. Said institution shall remain located in or near the City of Chicago, Cook County, and the corporators and their successors shall be competent in law or equity to take to themselves, in their said corporate name, real, personal, or mixed estate, by gift, grant, bargain, and sale, conveyance, will, devise, or bequest of any person or persons whomsoever; and the same estate, whether real, personal, or mixed, to grant, bargain, sell, convey, devise, let, place out at interest, or otherwise dispose of the same for the use of said institution in such manner as to them shall seem most beneficial to said institution. Said corporation shall faithfully apply all the funds collected or the proceeds of the property belonging to the said institution, according to their best judgment, in erecting and completing suitable buildings, supporting necessary officers, instructors, and servants, and procuring books, maps, charts, globes, and philosophical, chemical, and other apparatus necessary to the success of the institution, and do all other acts usually performed by similar institutions that may be deemed necessary or useful to the success of said institution, under the restrictions herein imposed: *Provided*, nevertheless, that in case any donation, devise, or bequest shall be made for particular purposes accordant with the design of the institution, and the corporation shall accept the same, every such donation, devise, or bequest shall be applied in conformity with the express conditions of the donor or devisor: *Provided, further*, that said corporation shall not be allowed to hold more than two thousand acres of land at any one time unless the said corporation shall have received the same by gift, grant, or devise; and in such case they shall be required to sell or dispose of the same within ten years from the time they shall acquire such title; and on failure to do so, such lands over and above the before-named two thousand acres shall revert to the original donor, grantor, devisor or their heirs.

SECTION V. The treasurer of the institution and all other agents when required, before entering upon the duties of their appointment, shall give bond for the security of the corporation in such penal sums, and with such securities as the corporation shall approve, and all process against the corporation shall be by summons, and the service of the same shall be by leaving an attested copy thereof with the treasurer at least sixty days before the return day thereof.

SECTION VI. The corporation shall have power to employ and appoint a President or Principal for said institution, and all such

professors or teachers and all such servants as may be necessary, and shall have power to displace any or such of them as the interest of the institution may require, to fill vacancies which may happen by death, resignation, or otherwise, among said officers and servants and to prescribe and direct the course of studies to be pursued in said institution.

SECTION VII. The corporation shall have power to establish departments for the study of any and all the learned and liberal professions in the same, to confer the degree of doctor in the learned arts and sciences and *belles-lettres*, and to confer such other academical degrees as are usually conferred by the most learned institutions.

SECTION VIII. Said corporation shall have power to institute a board of competent persons, always including the faculty, who shall examine such individuals as may apply, and if such applicants are found to possess such knowledge pursued in said institution as in the judgment of said board renders them worthy, they may be considered graduates in course, and shall be entitled to diplomas accordingly on paying such fee as the corporation shall affix, which fee, however, shall in no case exceed the tuition bills of the full course of studies in said institution; said examination board may not exceed the number of ten, three of whom may transact business, provided one be of the faculty.

SECTION IX. Should the corporation at any time act contrary to the provisions of this charter, or fail to comply with the same, upon complaint being made to the Circuit Court of Cook County, a *scire facias* shall issue, and the circuit attorney shall prosecute in behalf of the people of this state for forfeiture of this charter.

This act shall be a public act, and shall be construed liberally in all courts, for the purposes herein expressed.

The charter thus granted was amended by an act approved February 14, 1855, which reads as follows:

SECTION I. *Be it enacted by the People of the State of Illinois, represented in the General Assembly:* That John L. Smith, Aaron Wood, Luther Taylor, and Wm. Graham, and such other persons as shall be elected to succeed them by the Northwestern Indiana Conference of the Methodist Episcopal Church, be, and they are hereby, constituted members of the Board of Trustees of the Northwestern University.

SECTION II. No spirituous, vinous, or fermented liquors shall be sold, under license or otherwise, within four miles of the location of said University, except for medicinal, mechanical, and sacramental purposes, under penalty of twenty-five dollars for each offense, to be

recovered before any Justice of the Peace of said County of Cook: *Provided*, that so much of this act as relates to the sale of intoxicating drinks within four miles may be repealed by the General Assembly whenever they may think proper.

SECTION III. The said incorporation shall have power to take, hold, use and manage, lease and dispose of all such property as may in any manner come to said corporation charged with any trust or trusts, in conformity with such trusts and directions, and to execute all such trusts as may be confided to it.

SECTION IV. That all property of whatever kind or description, belonging to or owned by said corporation, shall be forever free from taxation for any and all purposes.

SECTION V. This act shall be public, and take effect from and after its passage.

The charter was again amended by an act approved February 16, 1861, which reads as follows:

SECTION I. *Be it enacted by the People of the State of Illinois, represented in the General Assembly:* That the Annual Conferences of the Methodist Episcopal Church, which now are or may hereafter be authorized to elect or appoint Trustees of said University, shall hereafter elect only two Trustees each, who shall also be and perform the duties of the visitors to said institution, and the place of the two Trustees last appointed by each conference is hereby vacated. The Trustees elected by such conferences shall hereafter hold their office for two years, and until their successors are chosen, the term of one elected by each of them expiring annually. In case any conference having authority to elect Trustees shall now or hereafter be divided into two or more annual conferences, they shall each have authority to elect Trustees. On the request of the Board of Trustees, made at a regular meeting, any such Annual Conference may elect Trustees as herein provided.

SECTION II. Any annual conference electing Trustees as herein provided, having at any time refused to elect successors thereto, or resolving to discontinue or refuse its patronage to said institution, shall authorize the Board of Trustees, by a vote of the majority thereof at any regular meeting, to declare vacant the place of all Trustees appointed by such conference, and its right to appoint Trustees shall thereupon cease.

SECTION III. Any chartered institution of learning may become a department of this University by agreement between the Boards of Trustees of the two institutions.

SECTION IV. This act shall take effect and be in force from and after its passage.

A third amendment was made by an act approved February 23, 1867, which reads as follows:

SECTION I. *Be it enacted by the People of the State of Illinois, represented in the General Assembly:* That the name of that Corporation created by act of the General Assembly of the State of Illinois, approved on the 28th day of January, A.D. 1851, under the name of the "Trustees of the Northwestern University," be and the same is hereby changed to "Northwestern University," and by that name shall hereafter be known, and in and by such name shall have and exercise all the powers and immunities conferred on said corporation by said act of incorporation, and all acts amendatory thereof.

SECTION II. In addition to the number of Trustees heretofore provided for by law, the Board may elect any number, not exceeding twenty-four, and without reference to their several places of residence; and a majority of the whole Board shall be members of the Methodist Episcopal Church.

SECTION III. No greater number shall be required to constitute a quorum than has been heretofore required by law: *Provided*, that in all called meetings of the Board the object of the meeting shall be particularly specified in the notice to be previously given to each Trustee.

SECTION IV. This act shall be a public act, and in force from and after its passage.

UNIVERSITY STATUTES.

The following statutes have been adopted by the Trustees:

PRESIDENT. · The President of the University shall be the head of the educational departments of the University, and of each of them.

He shall see that all the rules and regulations prescribed by the Board of Trustees or the Executive Committee for the government of the University are faithfully observed. He shall exercise such general executive powers as are necessary to the good government of the University and the protection of its interests, and which are not otherwise provided for.

It shall be his duty to nominate to the Board officers of instruction, except as otherwise provided, and to see that all officers of instruction are doing a proper amount and a satisfactory quality of work.

He shall prepare an annual report on the condition and needs of the University, shall cause the same to be printed, and shall send a copy to each member of the Board prior to its annual meeting.

He shall be, whenever present, the presiding officer of the

Faculty of any College or School in the University. He shall have the right of a deciding vote in case of a tie. He shall appoint all committees provided for by the Faculty, unless otherwise ordered, and shall call extra meetings of any Faculty, whenever, in his judgment, such meetings may be called for by the welfare of the University.

OFFICERS. The officers of instruction in the University shall have designation and precedence as follows:

1. Professors.
2. Acting Professors.
3. Associate Professors.
4. Assistant Professors.
5. Instructors.
6. Tutors.
7. Lecturers.
8. Such other subordinate officers as may be from time to time appointed.

FACULTIES. The Faculty of any College or School shall be constituted of officers of instruction who are above the rank of Tutor.

Each department of study shall be under the supervision of a Professor or Acting Professor, who shall be the head of the department, and who, subject to the direction of the Faculty, shall have final decision in all matters relating to the work of the department. In case there shall be two or more officers having the rank of Professor in any department, the one first appointed shall have precedence.

Each Faculty shall have power to determine the requirements for the admission of students to such departments of the University as are under its jurisdiction; to prescribe and define the various courses of study for undergraduate and graduate students; to determine, subject to revision by the Board of Trustees, the requirements for such degrees as are offered to students under its jurisdiction; to enact and enforce such rules for the guidance and government of its own students as it may deem best adapted to the interests of the University.

There shall be elected by the Board of Trustees, or the Executive Committee, a Dean of each School or College, whose duty it shall be to preside at all meetings of the Faculty of such School or College in the absence of the President of the University. He shall annually submit to the President of the University, not later than June 1, a report of the work of the School or College to which he belongs, with such recommendations as he may deem advisable, and the reports so made may be made a part of the President's annual report to the Board of Trustees.

Each Faculty may present at any meeting of the Board or of the Executive Committee a report of any matters concerning the interests of its School or College, which report shall be transmitted through the President of the University.

No officer in the University shall absent himself from the discharge of his proper duties in the University longer than three college days at any one time without securing the previous consent of the President of the University, or of the Dean of the School to which said officer of instruction belongs; but this rule shall not be applied in case of absence occasioned by sickness or death of relatives.

A Committee for the Regulation of Athletic Sports shall hereafter be annually appointed and chosen as follows: Three members of the University Faculties and three alumni of the University, these six to be appointed by the Executive Committee; and also three undergraduates, to be chosen during the first week of the College of Liberal Arts year by the Athletic Association. This committee shall have entire supervision and control of all athletic exercises within and without the precincts of the University, subject to the authority of the Faculty of Liberal Arts.

Duties and Discipline of Students. All students are required to obey the rules of the University, to comply with the rules and regulations made by the Faculty of the School or College to which they belong, and to conduct themselves at all times with decorum and propriety.

Any student who is sent for by the President or any officer of instruction of the Faculty under which he is enrolled shall comply with the call without delay, and students must at all times obey the directions of the President or any officer of instruction in the School or College to which they belong, pertaining to good order in the institution.

A student may be suspended, dismissed, or expelled by a vote of two-thirds of the Professors of the Faculty of the School or College in which he is a member, provided always that, prior to such contemplated suspension, dismission, or expulsion, he be granted the right to a full and impartial hearing before the Faculty, and in all cases of discipline contemplating suspension, dismission, or expulsion the vote shall be by ballot. In the Academy this power of discipline shall belong to the Faculty of Liberal Arts.

Concerted absence from any appointed duty by a class, or by any number of students together, will be regarded as a violation of good order, and will be followed by suspension, dismission, or expulsion, at the discretion of the Faculty.

When any Faculty shall become satisfied that a student is not

fulfilling the purpose of his residence at the University, or is for any cause an unfit member thereof, the President shall notify his parents or guardians, that they may have an opportunity to withdraw him, and if he is not withdrawn within a reasonable time he shall be dismissed.

Students or societies in the University are forbidden to invite any lecturer to address them in public until the name of the proposed lecturer shall have been presented to the President of the University, or to the Dean of the School to which such students or societies belong, and his permission to extend the invitation has been obtained.

Publication by any student or students of any paper or production bearing the name of the University, or purporting to issue from it, is forbidden, unless the publication is previously approved by the President.

Women students in the College of Liberal Arts or in the Academy, who are not residents of Evanston, are required to live in Woman's Hall or in the College Cottage, unless special permission shall be granted them to live elsewhere. Application for such permission shall be made to a committee which shall consist of the President of the University, the Principal of the Academy, the Dean of Women, and the Business Manager of the University.

Excursions upon Lake Michigan in steamers or other vessels by bodies of students in departments of the University situated in Evanston, shall not be planned or carried out without the consent of the President, or the Executive Committee, which consent shall not be given until all possible precautions for the safety of the excursion party have been taken under the direction of a competent University representative.

The Oxford cap and gown shall be worn as an official dress at Commencement.

Graduation. All degrees in this institution, except honorary degrees, shall be conferred by the Board of Trustees on the recommendation of the proper Faculty; honorary degrees may be conferred upon the recommendation of the University Council.

Prior to the Commencement of any School or College, the Faculty thereof shall report to the Board of Trustees, if that Board is in session, the names in full and the places of residence of all students whom they shall recommend for degrees, whereupon the Board shall, in its discretion, pass a resolution to confer the same. In case the Board shall not be in session, the Faculty shall report the names as aforesaid to the Executive Committee of the Board of Trustees, who shall recommend that the President confer the degrees and report the same to the Board of Trustees for its approval.

For the recommendation of students to degrees by the different Faculties, all votes shall be by ballot. All candidates for degrees, except honorary degrees, shall be personally present at Commencement exercises, unless the Board or Executive Committee, on the recommendation of the appropriate Faculty, shall deem it proper to confer the degree in the absence of the candidate; and the candidates shall perform such public duties on Commencement day as the Faculty may designate.

The name of no person shall be presented for a degree till all his dues to the University are paid. No fee shall be charged for an honorary degree.

All degrees shall be conferred by the President on the authority of the Board of Trustees.

No duplicate diplomas shall be granted to graduates of the University without such proof of the loss of the original by affidavit or otherwise as shall be satisfactory to the Executive Committee.

THE UNIVERSITY COUNCIL. The President of the University, together with the Dean of each Faculty, and another member thereof elected annually by the Faculty, shall constitute the University Council.

The University Council shall meet on the day preceding the annual meeting of the Board of Trustees, and at such other times as the President of the University may designate.

The University Council may consider such matters as pertain to the interests of the University as a whole, and may make recommendations concerning the same to the Board of Trustees.

The University Council may recommend to the Board of Trustees the person or persons upon whom they think it fitting that honorary degrees should be conferred.

THE COLLEGE OF LIBERAL ARTS.

FACULTY.

EDMUND JANES JAMES, PH.D., LL.D., *President.*

DANIEL BONBRIGHT, LL.D., *Dean Emeritus, John Evans Professor of Latin Language and Literature.*

HERBERT FRANKLIN FISK, D.D., LL.D., *Professor of Pedagogics.*

ROBERT MCLEAN CUMNOCK, A.M., *Professor of Rhetoric and Elocution.*

ROBERT BAIRD, A.M., LL.D., *Professor of Greek Language and Literature.*

ROBERT DICKINSON SHEPPARD, A.M., D.D., *Professor of English and American History.*

ABRAM VAN EPS YOUNG, PH.B., *Professor of Chemistry.*

GEORGE WASHINGTON HOUGH, LL.D., *Professor of Astronomy and Director of Dearborn Observatory.*

JAMES TAFT HATFIELD, PH.D., *Professor of German Language and Literature.*

CHARLES BEACH ATWELL, PH.M., *Professor of Botany.*

HENRY CREW, PH.D., *Fayerweather Professor of Physics.*

J. SCOTT CLARK, LIT.D., *Professor of the English Language.*

JOHN HENRY GRAY, PH.D., *Professor of Political Science.*

PETER CHRISTIAN LUTKIN, MUS.D., *Professor of Music.*

GEORGE ALBERT COE, PH.D., *John Evans Professor of Moral and Intellectual Philosophy.*

ALJA ROBINSON CROOK, PH.D., *Professor of Mineralogy and Economic Geology.*

HENRY SEELY WHITE, PH.D., *Henry S. Noyes Professor of Pure Mathematics.*

THOMAS FRANKLIN HOLGATE, PH.D., *Acting Dean, Professor of Applied Mathematics.*

WILLIAM CALDWELL, SC.D., *Professor of Ethics and Social Philosophy.*

*WILLIAM ALBERT LOCY, PH.D., *Professor of Zoölogy.*

*On leave of absence, First Semester.

CHARLES JOSEPH LITTLE, PH.D., LL.D., *Professor of Church History. (President of Garrett Biblical Institute.)*

GEORGE OLIVER CURME, A.M., *Professor of Germanic Philology.*

JAMES ALTON JAMES, PH.D., *Professor of the History of Continental Europe.*

EDOUARD BAILLOT, B.S., *Professor of Romance Languages.*

AMOS WILLIAM PATTEN, A.M., D.D., *Professor of Biblical Instruction.*

ULYSSES SHERMAN GRANT, PH.D., *William Deering Professor of Geology.*

JOHN ADAMS SCOTT, PH.D., *Professor of Greek Language and Literature.*

DOREMUS ALMY HAYES, PH.D., D.D., *Professor of New Testament Exegesis. (Garrett Biblical Institute.)*

ASHLEY HORACE THORNDIKE, PH.D., *Professor of English Literature.*

FREDERICK CARL EISELEN, A.M., B.D., *Professor of Hebrew Language and Literature. (Garrett Biblical Institute.)*

OLIN HANSON BASQUIN, PH.D., *Associate Professor of Physics.*

MARTHA FOOTE CROW, PH.D., *Dean of Women, Assistant Professor of English Literature.*

ARTHUR HERBERT WILDE, PH.D., *Registrar, Assistant Professor of History.*

OMERA FLOYD LONG, PH.D., *Assistant Professor of Latin.*

JOHN EDWARD GEORGE, PH.D., *Assistant Professor of Political Economy.*

WALTER DILL SCOTT, PH.D., *Assistant Professor of Psychology and Pedagogy, Director of the Psychological Laboratory.*

ALBERT ERICSON, A.M., *Instructor in the Swedish Language. (President of the Swedish Theological Seminary.)*

NELS EDWARD SIMONSEN, A.M., D.D., *Instructor in the Norwegian and Danish Languages. (Principal of the Norwegian-Danish Theological School.)*

MARY FREEMAN, A.M., *Instructor in Romance Languages.*

HERBERT GOVERT KEPPEL, PH.D., *Instructor in Mathematics.*

HENRY LE DAUM, A.B., *Instructor in French.*

*SAMUEL DEBENHAM GLOSS, M.S., *Instructor in Chemistry.*

†CHARLES MARVIN HOLLISTER, A.B., M.D., *Instructor in Physical Culture and Director of the Gymnasium.*

‡EDWIN A. GREENLAW, A.M., *Instructor in Pedagogy.*

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*Resigned February, 1903.
†Resigned December, 1902.
‡On leave of absence.

CHARLES HILL, PH.D., M.D., *Instructor in Zoölogy.* (*In charge of the Department, First Semester.*)

OLIN CLAY KELLOGG, PH.D., *Instructor in the English Language.*

GEORG EDWARD, *Instructor in German.*

MARCUS SIMPSON, PH.D., *Instructor in German.*

ROBERT EDWARD WILSON, PH.M., *Instructor in Mathematics.*

JOHN PRICE ODELL, A.B., *Instructor in the English Language.*

ROBERT RICHARDSON TATNALL, PH.D., *Instructor in Physics.*

JAMES FIELD WILLARD, PH.D., *Instructor in History.*

HORACE BUTTERWORTH, PH.B., *Instructor in Physical Culture and Director of the Gymnasium.*

JAMES NEWTON PEARCE, PH.M., *Instructor in Chemistry.*

MARY ELLEN TAYLER, B.S., *Teaching Fellow in Botany.*

GLEASON FILLMORE STARKWEATHER, *Assistant in Shop-Work.*

FESTUS EDWARD OWEN, A.B., *Teaching Fellow in Greek.*

HAROLD BROUGH SHINN, A.B., *Teaching Fellow in Zoölogy.*

HARRIET LEHMANN, A.B., *Assistant in Zoölogy.*

STANDING COMMITTEES.*

Administrative:—Professors HOLGATE, BAIRD, BONBRIGHT, CROW, FISK, PATTEN, WILDE, YOUNG.

Board of Examiners:—Professors WHITE, BAIRD, BAILLOT, CURME, GEORGE, LONG, Dr. TATNALL.

Undergraduate Study:—Professors YOUNG, COE, GEORGE, GRANT, HATFIELD.

Advanced Standing:—Professors LOCY, BALLIOT, CLARK.

Graduate Study:—Professors CREW, GRAY, LOCY, J. A. SCOTT, THORNDIKE.

Admission Requirements:—Professors ATWELL, CURME, JAMES, W. D. SCOTT, THORNDIKE.

Delinquent Students:—Professors HOLGATE, LONG, WILDE.

Registration and Special Students:—Professors HOLGATE, GRANT, WILDE.

Accredited Schools:—Professors JAMES, FISK, GRANT, LONG, WHITE.

Academy:—Professors FISK, CLARK, CREW, W. D. SCOTT, Dr. KEPPEL.

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* Names arranged alphabetically except the chairman.

Library:—Professors BONBRIGHT, GRAY, HATFIELD, LOCY, YOUNG.
Chapel:—Professors BAIRD, CROOK, PATTEN.
Fellowships and Scholarships:—Professors WHITE, CALDWELL, HATFIELD, JAMES.
Loans and Charitable Funds:—Professors FISK, HOUGH, PATTEN.
Regulation of Athletic Sports (Faculty Members):—Professors LONG, J. A. SCOTT, WHITE.
Musical Organizations:—Professors HATFIELD, CROOK, LUTKIN.
Social Affairs:—Professors YOUNG, ATWELL, CROW, FISK, LUTKIN.
Physical Training and Gymnasium:—Professors HOLGATE, LONG, Mr. WILSON.
Catalogue:—Professors JAMES, HOLGATE, WILDE.

CONSULTATION HOURS.

PRESIDENT JAMES, - - 2:30–5, Tuesdays, Room 14, U. H.*
The DEAN, - - Daily 11 to 12, 3 to 4, Room 2, U. H.
The REGISTRAR, - - - - Daily, 11–12, Room 8, U. H.
Professor BONBRIGHT, - - - 10, Mondays and Wednesdays.
Professor FISK, - - - Daily, 11 to 12:30, Room 1, Fisk Hall.
Professor CUMNOCK, Mondays and Tuesdays, 2, Room 1, Swift Hall.
Professor BAIRD, - Daily, 4, except Saturdays, Room 12, U. H.
Professor SHEPPARD, - - - Daily, 10, Business Office.
Professor YOUNG, - - Daily, 11 to 12, Room 21, W. S. H.†
Professor HOUGH, Tuesdays and Thursdays, 3, Room 4, E. S. H.†
Professor HATFIELD, Mondays, Wednesdays, and Fridays, 11 to 12, Room 26, Library
Professor ATWELL, - - - Daily, 10, Room 21, U. H.
Professor CREW, - Daily, except Wednesday, 10 to 11, Room 10, E. S. H.
Professor CLARK, - - Mondays, 9 A. M.; other days, 11 A. M., Room 17, U. H.
Professor GRAY, - Mondays, Wednesdays, Fridays, 9 to 9:50; Tuesdays, 4 to 4:50, Room 29, Library.
Professor LUTKIN, - Mondays, Tuesdays, Wednesdays, Thursdays, 4:30, Music Hall.
Professor COE, - 11:30 Mondays, Tuesdays; 2:00 Thursdays; 3:30 Fridays; Room 5, O. C.‡
Professor CROOK, - - - Daily, 9 to 10, Room 7, W. S. H.
Professor WHITE, - Tuesdays, Thursdays, 4, Room 4, U. H.

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* U. H. designates University Hall.

† W. S. H. designates the west wing of Science Hall, and E. S. H. the east wing of the same building.

‡ O. C. designates Old College.

Professor CALDWELL, Mondays, 9:50, Tuesdays, 3:50, Fridays, 9:50, Room 6, O. C.; Tuesdays, 10:45 to 11:50, Thursdays, 12:50, Room 15, Library; 3:30 to 3:50 Wednesdays, Room 6, Library.
Professor LOCY, - Tuesdays, Thursdays, 10 to 11, Room 26, U. H.
Professor CURME, - Tuesdays, Thursdays, 9, Room 4, Library.
Professor JAMES, - Mondays, Wednesdays, Fridays, 10 to 10:30, Room 9, U. H.
Professor BAILLOT, - Wednesdays, Fridays, 10 to 11, Room 13, U. H.
Professor PATTEN, Daily, except Mondays and Saturdays, 9 to 12, Room 1, O. C.
Professor GRANT, Wednesdays, 11; also frequently 8:30 to 9, and 4 to 5 daily; Room 18, U. H.
Professor SCOTT, - - - - Daily, 11 to 12, Room 2, Library.
Professor THORNDIKE, - - Mondays, Wednesdays, Fridays, 10 to 11, Room O. C.
Associate Professor BASQUIN, - Tuesdays, Thursdays, Fridays, 11, Room 22, E. H. S.
Assistant Professor WILDE, - Daily, 11 to 12, Registrar's Office.
Assistant PROFESSOR CROW, - Tuesdays, 10, Room 18, Library; Mondays, Tuesdays, Wednesdays, Thursdays 2, and Saturdays 8 to 8:30 am., Willard Hall.
Assistant Professor LONG, - Mondays, Fridays, 11, Room 1, Library.
Assistant Professor GEORGE, Mondays, Wednesdays, Fridays, 11 to 12, Room 30, Library.
Assistant Professor SCOTT, - - Wednesdays and Fridays, 3, Room 9, O. C.
Mr. ERICSON, - - Daily, 3 to 5, Swedish Seminary.
Dr. SIMONSEN, - - - - - Daily, 10, Memorial Hall.
Miss FREEMAN, Daily, 2 to 3, Wednesdays, 10 to 11, Room 13, U. H.
Mr. KEPPEL, - 4 to 5 Tuesdays, 9 to 10 Fridays, Room 4, U. H.
Mr. LE DAUM, - - - Daily, 3 to 4, Room 7, U. H.
Mr. WILSON, - - Tuesdays, Thursdays, 4, Room 4, U. H.
Mr. WILLARD, - Mondays, 9:30 to 10, Tuesdays, 2:45 to 3, Room 9, U. H.
Mr. ODELL, - - - Tuesdays, Thursdays, 9 to 12.

REQUIREMENTS FOR ADMISSION.

Candidates for admission to the College of Liberal Arts must be at least sixteen years of age, and must present satisfactory evidence of good moral character, together with credentials from the last institution which they attended. These credentials should include a statement signed by the Principal of the school showing in detail the studies pursued by the candidate in preparation for college, and bearing the Principal's recommendation for admission.

Blank forms for this statement may be had on application to the Registrar, and should be returned, properly filled out, at least one week before the opening of the college year.

Either by examination or by certificate from an accredited school, all candidates must give satisfactory evidence of preparation in the following subjects:

(1) All the units described under Group A.

(2) Four units from Group B.

(3) Three additional units from Groups B or C.

The items in the groups indicate both the amount of work to be covered and the time to be devoted to each subject in a good secondary school, in order to secure a unit of credit.

Group A.

1. *English.* The character and amount of preparation required is indicated in the program which follows, although the arrangement of the work may vary considerably from this.

(*a*) Spelling, punctuation, grammar, paragraphing, the fundamental principles of rhetoric, reading, practice in writing compositions based on the student's personal experience. *Time requirement, the equivalent of four hours a week throughout one year.*

(*b*) The following books are to be read. The student should acquire a knowledge of their subject-matter and of the main facts in the lives of their authors, and should practice writing short compositions on subjects drawn from their reading. Proper equivalent for these books may be accepted.

1903, 1904, 1905: Shakespeare's "Merchant of Venice" and "Julius Cæsar"; the Sir Roger de Coverley Papers in the *Spectator;* Goldsmith's "Vicar of Wakefield"; Coleridge's "Ancient Mariner"; Scott's "Ivanhoe"; Carlyle's "Essay on Burns;" Tennyson's "The

Princess"; Lowell's "The Vision of Sir Launfal"; George Eliot's "Silas Marner." *Time requirement, the equivalent of four hours a week throughout one year.*

(*c*) The student is expected to make a thorough study of each of the works named below, accompanied by practice in composition. No equivalent for these books will be accepted.

1903, 1904, 1905: Shakespeare's "Macbeth"; Milton's "Lycidas"; "Comus", "L'Allegro", and "Il Penseroso"; Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and on Addison. *Time requirement, the equivalent of four hours a week throughout one year.*

Certificates from accredited schools are expected to contain a statement from the instructor in English that each student, before entering college, has written *at least eight exercises of at least three hundred words each.* Descriptions of scenes or objects actually witnessed by the writers, narrations based on personal experiences, and arguments on specific questions will be accepted; rambling expository essays on broad general themes are not acceptable.

Students without certificates may present these exercises for inspection by the examiner.

3. *Mathematics*—(*a*) Algebra, including factoring, common divisors and multiples, fractions, simple equations of one or more unknown quantities, involution, evolution, theory of exponent, radicals. Special attention should be given to the statement of problems in the form of equations. *Time requirement, four or five hours a week throughout one year.*

(*b*) Algebra, including a review of the previous work and a thorough study of radicals, equations involving radicals, quadratic equations with one or two unknown quantities, and equations solved like quadratics. *Time requirement, the equivalent of four or five hours a week throughout one-half year.*

(*c*) Plane Geometry, including a course equivalent to that contained in Holgate's or in Beman & Smith's Geometry, together with the solution of a large number of exercises and numerical problems. *Time requirement, four or five hours a week throughout one year.*

(*d*) Solid Geometry, a course equivalent to that contained in Holgate's or in Beman & Smith's Geometry, including numerous exercises and problems. *Time requirement, the equivalent of four or five hours a week throughout one-half year.*

It is recommended that the work in Mathematics in preparation for college be extended over at least three years of the high school course, and especially that work be given in this subject in the last year. A good arrangement is as follows: First year, four hours a

week, algebra; second year, four hours a week, geometry; fourth year, four hours a week for first half-year, solid geometry; second half-year, algebra, reviewing and making a thorough study of quadratic equations and radicals.

4. *History*—Ancient History with special reference to Greece and Rome, West's Ancient History, or Botsford's Greece and Rome, or an equivalent, with supplementary reading. *Time requirement, four or five hours a week throughout one year.*

NOTE.—If a candidate cannot present a year of Ancient History, he may substitute for it either No. 27, 28, or 29, as described under Group C, or a year of General History, Myer's, or an equivalent.

5. *Science*—Physics, a course equivalent to that contained in Hall and Bergen's Text-book of Physics, Carhart and Chute's Elements of Physics, or Crew's Elements of Physics. The candidate must present evidence of familiarity with the general principles of physical science, especially the simpler principles and phenomena which are constantly illustrated in daily life, such as the pendulum, hydrostatics, water waves, pitch and intensity of sound, heat conduction, boiling, freezing, simple lenses, mirrors, prisms, magnets, lines of force, voltaic cells, galvanometers, etc. It is also required that a course of laboratory work shall have been pursued in connection with the text-book, equivalent to at least forty exercises from the Harvard list, or from Crew and Tatnall's Laboratory Manual of Physics, and that accurate notes descriptive of the experiments shall have been kept. *Time requirement, five hours a week throughout one year.*

NOTE.—If a candidate cannot present a year of Physics, he may substitute for it either a year of Physiography (No. 22), a year of Biology (No. 23, 24, or 25), or a year of Chemistry (No. 26).

GROUP B.

8. *Greek*—(*a*) Grammar, White's First Greek Book, or an equivalent. *Time requirement, four or five hours a week throughout one year.*

9. *Greek*—(*b*) Xenophon's Anabasis, Books I, II, and III; Jones's Greek Prose Composition, or an equivalent, thirty lessons. *Time requirement, four or five hours a week throughout one year.*

10. *Greek*—(*c*) Anabasis, Book IV. Prose Composition, lessons thirty to forty. Homer, Iliad or Odyssey, 1,800 lines. *Time requirement, four or five hours a week throughout one year.*

11. *Latin*—(*a*) Grammar; Cæsar's Gallic War, ten pages, or twenty pages of Viri Romæ, with retranslation of English into Latin. *Time requirement, five hours a week throughout one year.*

12. *Latin*—(*b*) Cæsar's Gallic War, four books, completed; Latin Composition. *Time requirement, five hours a week throughout one year.*

13. *Latin*—(*c*) Cicero, six orations, including the Manilian Law; Latin Composition. *Time requirement, five hours a week throughout one year.*

14. *Latin*—(*d*) Vergil, six books of the Æneid. *Time requirement, four or five hours a week throughout one year.*

It is strongly advised that sight-reading be made a daily practice in connection with the texts to be translated. In this way the Bucolics of Vergil or two or three books of the Æneid and one or two orations of Cicero may be read, in addition to the amount designated. The work in Latin Grammar should be thorough, and made familiar by reviews and written exercises. An examination is appointed six weeks after the student's entrance, to test the sufficiency of his preparation in this subject.

15. *French*—(*a*) Correct pronunciation; elementary grammar with exercises, including the irregular verbs; the reading of from one hundred and fifty to two hundred pages of easy French prose. *Time requirement, five hours a week throughout one year.*

16. *French*—(*b*) Elementary grammar completed; easy composition, based upon one of the works read; the reading of two hundred and fifty to three hundred pages of French prose. *Time requirement, five hours a week throughout one year.*

17. *French*—(*c*) Study of the difficulties of French syntax and idioms; translations into French from text-book and easy original compositions; the reading of not less than six hundred pages of at least five standard authors; ability to take grammatical dictations and to understand and answer questions in French. *Time requirement, four or five hours a week throughout one year.*

18. *German*—(*a*) Pronunciation; the memorizing and use of easy colloquial sentences; the rudiments of grammar (inflection of the articles, ordinary nouns, adjectives, pronouns, weak verbs, and the more usual strong verbs; the use of the more common prepositions; the simpler uses of the modal auxiliaries and the elementary rules of syntax and word-order); abundant easy exercises; the reading of seventy-five to one hundred pages of graduated texts. *Time requirement, four or five hours a week throughout one year.*

19. *German*—(*b*) The reading of from one hundred and fifty to two hundred pages of literature in the form of easy stories and plays; translation into German of matter based upon works read; continued drill upon rudiments of grammar. *Time requirement, four or five hours a week throughout one year.*

20. *German*—(*c*) The reading of about four hundred pages of moderately difficult prose and poetry; retranslation into German; grammatical drill upon the less usual strong verbs; the use of articles, cases, auxiliaries, tenses and modes, word-order and word-

formation. *Time requirement, four or five hours a week throughout one year.*

NOTE.—A single unit of a foreign language will be accepted for entrance only on condition that the candidate shall continue the study of that language through a second year.

GROUP C.

21. *Mathematics*—Algebra, including ratio and proportion, variation, progressions, permutations and combinations, binomial theorem, logarithms and their application to interest and annuities, introduction to determinants, theory of equations and series, as in Fisher and Schwatt's College Algebra, or Hall and Knight's Elementary Algebra, or a full equivalent.

Plane Trigonometry, including the solution of oblique triangles. Consistent employment of ratio definitions of the trigonometric functions is expected, also the ability to verify numerical computations. *Time requirement, five hours a week throughout one year.*

22. *Physiography*—A study of the subjects usually given in courses in physical geography—the earth as a planet, the atmosphere, the climate, the ocean, and the land. Emphasis is to be placed upon the land, especially upon the topographic features, their origin and their significance. Some recent text-book should form the basis for the course, and the text-book should be supplemented by the study of maps, models, and the features of the earth's surface in the vicinity of the school. *Time requirement, four or five hours a week, throughout one year.*

23. *General Biology*—The study of typical animals and plants by laboratory methods covering the facts of morphology and physiology. This requirement may be met by a course such as that laid down in Boyer's Elementary Biology, or in Colton's Practical Zoölogy and Atkinson's Lessons in Botany. In all cases special provision should be made for laboratory work, and accurate notes and drawings should be made by the student. Teachers in accredited schools reporting to the University should designate the quality of the laboratory work as a separate item, in addition to that of the class room work. *Time requirement, five hours a week throughout one year, including not less than one hundred and forty hours of laboratory work and two class-room periods a week.*

24. *Botany*—The study of plants as living organisms, with special regard to function, structure, and relation to environment. Each recitation or quiz period should be preceded by four hours of laboratory work. Atkinson's Lessons in Botany and Bergen's Foundations of Botany are satisfactory texts. Each pupil should individually perform the experiments and demonstrations, and should keep

a neat and accurate notebook showing the work done by himself and the conclusions reached. *Time requirement, four hours a week throughout one year.*

25. *Zoölogy*—One year's study of animal structure, habits, and general life-history will be accepted as a full item of credit for entrance, provided it has been done by the laboratory method. Conditions for undertaking this work vary too widely to make it desirable to designate either an outline or text-books. Teachers competent to carry on such a course for a full year will have their own method, and the material used will also vary. Colton's Practical Zoölogy and Parker and Haswell's Manual of Zoölogy (the latter for supplementary reading) will be suggestive. Emphasis should be placed on training in observation and accuracy in drawing and expression in the notebooks. To meet the requirements in this course there should be not less than 150 hours of laboratory work, besides two class-room periods a week throughout the year.

26. *Chemistry*—This course should occupy not less than four periods a week through a year, which should allow at least eight hours of the student's time for the subject. Laboratory work should be made an essential feature of the study, and this may well take one-half of the total time assignment. Careful and systematic notes of his individual work should be made by the student. Some work in quantitative experiments is recommended as extremely desirable both for training and in order to illustrate the fundamental laws. Purely descriptive work may better be limited to comparatively few elements and compounds rather than be extended to a larger list with resulting confusion to the student.

27. *Mediæval and Modern European History*—Myers' Mediæval and Modern History, or an equivalent, with supplementary reading. *Time requirement, four or five hours a week throughout one year.*

28. *English History*—A study of the political and constitutional development of England. Larned's English History or an equivalent. *Time requirement, four or five hours a week throughout one year.*

29. *American History and Civil Government*—Channing's Students' History of the United States, or an equivalent. James and Sanford's Government in State and Nation, or an equivalent. *Time requirement, four or five hours a week throughout one year.*

NOTE.—Candidates are recommended to offer one or more of the units of History as described above, as it is believed that better educational results are obtained by devoting a full year to one of these periods. But until further notice a unit of credit will be given for a year's work devoted to any two of these divisions, or a unit of credit will be given for a year devoted to General History.

30. *Political Economy*—Macvane's Political Economy, or its equivalent. *Time requirement, four or five hours a week throughout one year.*

31. *Manual Training*—Joinery, practice in making the more common joints in wood with hand tools; wood-turning, the use of the ordinary turning tools in making various curved forms, cups, balls, etc.

Pattern making, practice in making wood patterns from which castings may be made, involving the study of shrinkage, distribution of metal, and various methods of molding; forging, practice in the forming iron into various shapes when heated to the plastic condition, welding and tempering. Woodward's *The Manual Training School* describes the usual exercises. If a laboratory manual is not used the student should write up each exercise carefully, as in other laboratory work. *Time reqnirement, six hours a week in the shop throughout two years.*

Group D.

Instead of a full year's work in one science, the equivalent of four terms' work, each of five hours a week, from the subjects in this group will be accepted, until further notice, for one unit of credit under Group C; but students are strongly advised to make choice of one subject and pursue it through the year.

40. *Botany*—A practical knowledge of the general facts of plant life, such a course as is outlined in Atkinson's Lessons in Botany.

41. *Zoölogy*—A study of various animal types founded upon laboratory work such as that prescribed in Part I, Boyer's Elementary Biology.

42. *Physics*—Elements of Physics, Crew's, first four chapters, or an equivalent.

43. *Astronomy*—Young's Elements.

44. *Geology*—Brigham's Text-book of Geology, or Tarr's Elementary Geology, or an equivalent.

45. *Chemistry*—Remsen's Elementary Course, or an equivalent. It is urgently recommended that laboratory work by the student accompany this study.

46. *Drawing*—Elements of Free-Hand and Geometrical Drawing; such a knowledge of the subject as may be gained by practice under instruction two hours a week through one year.

47. *Human Physiology*—Martin's Human Body, briefer course, or an equivalent.

48. *Physical Geography*—Some recent text-book.

49. *History of England*—Montgomery's, or an equivalent.

50. *Civil Government*—James and Sanford's, or an equivalent.

In special cases, where candidates are unable to meet the requirements relating to specific subjects but can present the

full equivalent of the *total* requirement for admission, they may by vote of the Faculty or the Board of Examiners be admitted as regular students; but this regulation will not release a candidate for a degree from any of the specified studies required for that degree, as described on pages 67 and 68.

EXAMINATIONS FOR ADMISSION.

The regular days of examination for admission to the College of Liberal Arts are the Monday and Tuesday next preceding Commencement, and the first Monday and Tuesday of the college year. The regular examinations for the year 1903 will be held on June 15 and 16; and on September 21 and 22. Candidates may be examined and admitted at other times if prepared to enter classes at an advanced point in the regular courses; but they are advised to enter at the beginning of the college year.

On the dates above named, examinations will be held in the following order in Room 10, University Hall.

Plan for Entrance Examinations, 1903.

MONDAY, JUNE 15 AND SEPT. 21.

8 A.M., Subjects 8, 9, 10, 15, 16, 17, 32, 41.
10 A.M., Subjects 11, 12, 21, 34, 35.
2 P.M., Subject 4.
3 P.M., Subjects 5, 38, 39.
4 P.M., Subjects 22, 33, 36.

TUESDAY, JUNE 16 AND SEPT. 22.

8 A.M., Subject 3.
10 A.M., Subjects 18, 19, 29, 30.
11 A.M., Subjects 13, 14, 20, 23, 26, 28, 31, 40.
2 P.M., Subject 1.
3 P.M., Subject 2.
4 P.M., Subjects 24, 25, 27.

ADMISSION FROM ACCREDITED SCHOOLS.

Students who come from an accredited academy or high school may be admitted on certificate without examination, provided they present themselves for admission not later

than a year and three months after graduation from their school. The certificate must show that the candidate has met the requirements for admission as described on page 53 and must bear the Principal's signature recommending the candidate for admission. In case the preparation of a student admitted on certificate is found in the first semester to be unsatisfactory, he will be required to complete his preparation in a fitting-school or in such other way as may be designated.

ACCREDITED SCHOOLS.

High schools and academies may be placed on the accredited list of the University by action of the Faculty upon the recommendation of the Committee on Accredited Schools. This relation implies that the certificates of the school properly attested will be accepted at their face value toward meeting the requirements for admission.

Superintendents or Principals desiring to have their schools placed on the accredited list should make application to the Chairman of the Committee on Accredited Schools (see page 50), who will provide for a proper inspection. The following information will be expected in the letter of application:

a. The names of all the teachers, with a statement both of their preparation for teaching and of their experience in that work.

b. The latest printed catalogue or annual report of the school, containing an outline of the course of study and text-books used.

c. A careful statement of the methods pursued in teaching Mathematics, Languages, and Sciences.

d. The amount and kind of scientific apparatus and the extent of library facilities accessible to students.

The schools which are placed on the accredited list, will continue to be accredited for three years, unless the Faculty, within this period, becomes satisfied that such changes have occurred as make further inspection desirable.

The following schools are now on the accredited list:

School.	*Principal or Superintendent.*
Aurora, East Side High School,	W. F. Geiger.
Aurora, West Side High School,	Katharine Reynolds.

School.	*Principal or Superintendent.*
Beloit, Wis., Beloit College Academy,	A. W. Burr.
Beloit, Wis., High School,	F. E. Converse.
Belvidere, North Side High School,	Arthur J. Snyder.
Belvidere, South Side High School,	C. H. Le Vitt.
Bloomington, High School,	E. L. Boyer.
Blue Island, High School,	J. E. Lemon.
Bushnell, High School,	W. H. H. Miller.
Cairo, High School,	T. C. Clendenen.
Canton, High School,	Charles Aldrich.
Centralia, High School,	S. H. Bohn.
Charleston, High School,	J. L. Hughes.
Chicago, Austin High,	Geo. H. Rockwood.
Calumet High,	Avon S. Hall.
Englewood High,	James E. Armstrong.
English High & Manual Training,	Albert R. Robinson.
Hyde Park High,	Charles W. French.
Jefferson High,	Charles A. Cook.
Lake High,	Edward F. Stearns.
Lake View High,	B. F. Buck.
Marshall High,	Louis J. Block.
Medill High,	E. C. Rosseter.
North Division High,	Oliver S. Wescott.
Northwest Division High,	Franklin P. Fisk.
South Chicago High,	Charles I. Parker.
South Division High,	Spencer R. Smith.
West Division High,	George M. Clayberg.
Chicago, University School,	E. C. Coulter.
Cleveland, O., East High School,	B. U. Rannells.
Clinton, Ia., High School,	J. S. McCowan.
Clinton, Wis., High School,	R. E. Loveland
Clyde, Township High School,	H. V. Church.
Council Bluffs, Ia., High School,	W. N. Clifford.
Crown Point, Ind., High School,	Mattie B. Matheny.
Danville, High School,	L. H. Griffith.
Davenport, Ia., High School,	W. D. Wells.
Decatur, High School,	E. A. Gastman.
Denver, Colo., High School, Dis. No. 1,	Wm. H. Smiley.
Des Moines, Ia., North High School,	W. E. D. Rummel.
Des Moines, Ia., West High School,	W. A. Crusinberry.
Dixon, High School,	Charles W. Groves.
Dubuque, Ia., High School,	Frank L. Smart.
Evanston, Township High School,	Henry L. Boltwood.
Evanston, University Academy,	Herbert F. Fisk.

School.	*Principal or Superintendent.*
Elgin, Academy,	George N. Sleight.
Elgin, High School,	Earl J. Kelsey.
Epworth, Ia., Epworth Seminary,	H. R. DeBra.
Fond du Lac, Wis., High School,	Elizabeth Waters.
Freeport, High School,	Sigel E. Raines.
Galena, High School,	P. H. Clark.
Geneseo, High School,	H. H. Frost.
Harvey, Thornton Township High School,	J. E. Cable.
Havana, High School,	J. R. Sparks.
Highland Park, Deerfield Township High School,	W. A. Wilson.
Indianapolis, Ind., Shortridge High School,	George W. Hufford.
Jacksonville, High School,	L. A. Fulwider.
Joliet, Township High School,	J. Stanley Brown.
Kankakee, High School,	I. E. Neff.
Kansas City, Mo., Central High School,	I. I. Cammack.
Kenosha, Wis., High School,	W. J. Hammill.
Keokuk, Ia., High School,	Jesse Benjaman
Kewanee, High School,	T. M. Birney.
Kidder, Mo., Kidder Institute,	George W. Shaw.
LaCrosse, Wis., High School,	W. R. Hemmenway.
Lake Geneva, Wis., High School,	John N. Foster.
Lanark, High School,	C. A. Langworthy.
LaSalle, Township High School,	Charles A. Farnam.
Lincoln, High School,	B. E. Nelson.
Marengo, High School,	G. N. Snapp.
Maryville, Mo., Maryville Seminary,	Charles O. Mills.
Mattoon, High School,	Will A. Marlow.
Mendota, West Side High School,	C. G. Griswold.
Milwaukee, Wis., Milwaukee Academy,	J. Howard Pratt, Jr.
Milwaukee, Wis., East Division High School,	Arthur Burch.
Milwaukee, South Division High School,	Edward Rissman.
Milwaukee, West Division High School,	Charles E. McLenegan.
Minneapolis, Minn., Central High School,	John N. Greer.
Moline, High School,	J. H. Heil.
Mt. Carroll, High School,	Lillian H. Deming.
Muscatine, Ia., High School,	E. F. Schall.

School.	*Principal or Superintendent.*
New Trier Township High School,	Edward Manley.
Oak Park, Township High School,	John C. Hanna.
Odell, High School,	W. H. Carrithers.
Onarga, Grand Prairie Seminary,	Frank G. Barnes.
Oregon, High School,	E. S. Hady.
Ottawa, Township High School,	J. O. Leslie.
Peoria, High School,	A. W. Beasley.
Plano, High School,	J. R. Freebern.
Plattsmouth, Neb., High School,	John G. McHugh.
Polo, High School,	S. Manson Abbott.
Pontiac, Township High School,	C. E. De Butts.
Princeton, Township High School,	D. O. Barto.
Pueblo, Colo., High School,	H. M. Hart.
Quincy, High School,	David B. Rawlins.
Racine, Wis., High School,	E. W. Blackhurst.
Riverside, High School,	Edward L. Hardy.
Rockford, High School,	B. D. Parker.
Rock Island, High School,	H. E. Brown.
Rossville, High School,	I. A. Smothers.
St. Charles, High School,	C. E. Mann.
St. Paul, Minn., Cleveland High School,	S. A. Farnsworth.
Sandwich, High School,	W. W. Woodbury.
Sioux City, Ia., High School,	George E. Marshall.
Sioux Falls, S. D., High School,	H. L. Wilson.
Sparta, Wis., High School,	Frank M. Jack.
Spokane, Wash., High School,	H. T. Coleman.
Springfield, High School,	L. M. Castle.
Sterling, Township High School,	O. L. Miller.
Streator, Township High School,	Ralph R. Upton.
Tuscola, High School,	F. W. Schacht.
Warren, Warren Academy,	H. B. Humphrey.
Warren, Pa., High School,	W. L. MacGowan.
Waukegan, High School,	Webster J. Stebbins.
Wheaton, High School,	Ella M. Gregg.
Whitewater, Wis., High School,	W. W. Martin.
Wichita, Kas., High School,	B. F. Dunkin.
Winona, Minn., High School,	Wm. A. Bartlett.

Schools in California, Indiana, Iowa, Kansas, Michigan, Minnesota, Nebraska, Ohio, and Wisconsin, that are on the accredited list of the State University of their respective states will be recognized as if accredited by this University.

CERTIFICATES OF THE SCHOOL OF CORRESPONDENCE.

Certificates of the Interstate School of Correspondence, affiliated with the University, will be accepted for admission to college at their face value in the subjects covered by its academic courses as follows: English Literature, two units; Mathematics, three units; Latin, one unit; Botany, one unit.

Inquiries concerning Correspondence Work should be addressed to the Interstate School of Correspondence, 378-388 Wabash Avenue, Chicago.

SPECIAL STUDENTS.

On the recommendation of a standing committee of the Faculty, persons of serious purpose and mature years may be admitted as special students to pursue selected studies. The work taken by such students is under the supervision and control of the committee on Registration and Special Students. Applications for admission as special students must be accompanied by evidence of sufficient qualification to carry on the proposed work to advantage.

ADMISSION TO ADVANCED STANDING.

Students from other colleges seeking admission to this college must present evidence of honorable dismissal, and must give satisfactory proof of preparation for the courses of study which they desire to enter. They should bring official certificates showing their grade of credits for the subjects which they have pursued, also the number of weeks and the number of hours a week the respective studies were taken. The amount of credit to be obtained by certificate from another institution is determined by a committee of the Faculty, but no advanced credit will be given without examination except for work done in an approved college. All claims for advanced credit must be made during the first year of residence. Candidates for advanced standing are not admitted later than September of the collegiate year in which they expect to graduate.

RESIDENCE.

The University maintains but one dormitory for men, accommodating about thirty students. A few students find lodgings in Heck Hall, the dormitory of Garrett Biblical Institute, and about twenty men room in the College Young Men's Christian Association House. Aside from these limited accommodations, men students find rooms for themselves in private families.

Unless special exemption from the rule is granted, women students room in one or other of the Halls provided for them. Willard Hall is under the immediate oversight of the Dean of Women who lives in the building and associates with the residents as a friend and adviser. Pearsons Hall and Chapin Hall are in charge of an association of women, incorporated as the Woman's Educational Aid Association, which considers the claims of all applicants for admission, and has a friendly supervision over the residents of these halls. The ordinary work of Pearsons and Chapin Halls is done by the young women residing in these halls, under the direction of a competent Matron. In this way the expenses of living are materially reduced.

All women students, wherever they reside, are expected to conform to the general regulations prescribed for the conduct of those living in the Halls.

NOTE.—For further information respecting Willard Hall, letters of inquiry should be addressed to the Matron, Willard Hall, Evanston, Ill.; and for information respecting Pearsons or Chapin Hall, letters should be addressed to Corresponding Secretary of the Woman's Educational Aid Association, Evanston, Ill.

FACULTY ADVISERS.

Every undergraduate student on entering college is assigned to some member of the Faculty, who is to act as his adviser and give him helpful counsel relating to his college life. As soon as the student makes choice of the department in which he is to do his major work, the professor at the head of that department becomes his adviser. The student is required to submit his choice of studies to his adviser and obtain approval of the same before completing his registration for college work.

PROGRAMS OF STUDY.

As a condition of graduation, a student is required to complete 120 semester-hours of work, which must include the courses prescribed for the degree sought, the major work in at least one department, and the minor work in at least one other department. Four years will usually be necessary for the satisfactory accomplishment of this work.

In the selection of studies, prescribed courses take precedence of elective courses, and in the order designated in the programs. Except by special permission of the Committee on Registration, students must take, in addition to the prescribed studies, elective work sufficient to make a total of fifteen hours a week.

SCHEDULE OF REQUIRED STUDIES.

PRESCRIBED STUDIES FOR THE DEGREES OF BACHELOR OF ARTS AND BACHELOR OF PHILOSOPHY.

I.	Mathematics A or AB, - - -	4 or 5 hours	1st year
II.	English Language A, - - - -	3 hours	1st year
III.	Two of the following [see note (a) below]: Latin A, Greek A, French A, German A, - -	Each 4 hours	1st year
IV.	English Literature A, - - - -	2 hours	2nd year
V.	One of the following [see note (b) below]: Latin B, Greek B, French B, German B, - -	3 hours	2nd year
VI.	One of the following: Physics A, Chemistry A, Zoölogy A, Botany A, Geology A, Mineralogy A, - - - - -	3 or 4 hours	2nd or 3rd year
VII.	One of the following: History AB, A, or BC, Economics A or G, Philosophy A, Moral and Social Philosophy A, - - -	3 hours	2nd or 3rd year
VIII.	Philosophy E, - - - - - -	1 hour	3rd or 4th year

NOTE (*a*) —Candidates for the degree of Bachelor of Arts must take, under III., Latin A and Greek A; and candidates for the degree of Bachelor of Philosophy must take Latin A or Greek A and French A or German A.

NOTE (*b*).—Candidates for the degree of Bachelor of Arts must take, under V., either Latin B or Greek B; while candidates for the degree of Bachelor of Philosophy may take any one of the four courses named.

PRESCRIBED STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE.

I.	Mathematics A or AB, - - - -	4 or 5 hours	1st year
II.	English Language A, - - - -	3 hours	1st year
III.	French A (see note below), - -	4 hours	1st or 2nd year
IV.	German A (see note below), -	4 hours	1st or 2nd year
V.	English Literature A, - - - -	2 hours	2nd year
VI.	Two of the following, of which one must be chosen from the first three named: Physics A, Chemistry A, Zoölogy A, Botany A, Geology A, Mineralogy A, Mathematics B, BB, or C.	3 or 4 hours	1st, 2nd, or 3rd year
VII.	One of the following: History AB, A, or BC, Economics A or G, Philosophy A, Moral and Social Philosophy A.	3 hours	2nd or 3rd year
VIII.	Philosophy E, - - - - - -	1 hour	3rd or 4th year

NOTE.—If a candidate has presented for admission to college, Latin (a), (b), and (c), or Greek (a), (b), and (c), either French A or German A may be omitted from this schedule, but the work preparatory to the course thus omitted must be taken.

PRESCRIBED STUDIES FOR THE DEGREE OF BACHELOR OF LETTERS.

This degree will not be given after June, 1904.

First Year.—	English Language A, - -	three hours.
	French A, - - -	four hours.
	German A, - - -	four hours.
	Mathematics A or AB, -	four or five hours.
Second Year.—	English Language B, - -	two hours.
	English Literature A, -	two hours.
	English Literature B, - -	two hours.
	French B, - - -	three hours.
	German B, - - -	three hours.
Third or Fourth Year.—		
	Philosophy E, - -	one hour.

NOTE.—The completion of courses AA, and A, and B, or their equivalent, in French, and of courses AB, and A, and B, or their equivalent, in German, either in preparation or in college, is a requirement for this degree.

ELECTIVES.

In making up his program of elective work, the student's choice of courses is subject to the special regulations of the several departments.

At a date not later than the registration at the beginning of the third year of residence every candidate for a Bachelor's degree must announce the department in which he proposes to do *major work*, and also the department in which he proposes to do *minor work*. If the *major* is chosen in a department of foreign language, the *minor* must be chosen in a department other than a foreign language. The specific courses constituting the *major* and the *minor* in each department will be found listed in the following schedule. These involve in the case of a major about ten year-hours given to work in one department, and distributed over at least two years of the general program.

Students are advised to give careful thought to the plan of their elective work as early as the beginning of the second year. They may find it to their advantage to devote the whole, or a large part, of their elective time in the second year to the *major* subject. Elective work will be made more profitable by adhering consistently to a plan adopted for each year, and a course once selected should be continued through the year.

SCHEDULE OF MAJORS AND MINORS.

Every candidate for a degree must include in his total credit the work prescribed for a *major* in some one department and for a *minor* in some other department. If the *major* is chosen in a department of foreign language, the *minor* must be chosen in a department other than a foreign language.

DEPARTMENT	MAJOR	MINOR
Bible.	Ten year-hours.	Six year-hours.
Biology.	Botany A and Zoölogy A, and either Botany C or Zoölogy C.	
Botany.	Course A and six additional year-hours.	Course A and three additional year-hours.
Chemistry.	Courses A, B, and C.	Courses A and B.
Economics.	Course A or G, and seven additional year-hours.	Course A or G, and three additional year-hours.
English Language.	Courses A and B, and six additional year-hours, which may include Greek F if not used towards a major in Greek.	Courses A and B, and two additional year-hours.
English Literature.	Course A and eight additional year-hours, which may include English Language D.	Course A and four additional year-hours.
Geology.	Course A and seven additional year-hours, which may include Mineralogy A.	Course A and three additional year-hours.
German Languages and Literature.	Courses A (or BB) and B, and six additional year-hours.	Courses A (or BB) and B.
Greek Language and Literature.	Courses A and B, and five additional year-hours, not including Course N.	Courses A and B.
Hebrew.		Courses A and B.
History.	Course AB, A, or BC, and seven additional year-hours.	Course AB, A, or BC, and three additional year-hours.
Latin Language and Literature.	Courses A and B, with C or D, and E or F, or their equivalents.	Courses A and B.

DEPARTMENT	MAJOR	MINOR
Mathematics.	Fourteen year-hours, including Courses A or AB, and B or BB.	Courses A or AB, and B, BB, or C.
Mineralogy and Economic Geology.	Course A and seven additional year-hours, which may include Geology A.	Course A and three additional year-hours.
Moral and Social Philosophy.	Course A and seven additional year-hours, which may include one semester (Psychology) of Philosophy A.	Course A and three additional year-hours.
Pedagogics.	Ten year-hours, including Courses A or B, and C or D, Philosophy A, and two additional year-hours in Pedagogy or Psychology.	Six year-hours.
Philosophy, Psychology, and Logic.	Courses A and C, and five additional year-hours, which may include Ethics (Moral and Social Philosophy A) one year-hour.	Course A and three additional year-hours.
Physics.	Course A and six additional year-hours.	Course A and three additional year-hours.
Romance Languages.	Courses A and B, and six additional year-hours.	Courses A and B.
Zoölogy.	Course A and six additional year-hours.	Course A and three additional year-hours.

COURSES OF INSTRUCTION.

The courses of instruction are subject to change from year to year. Those given during the year 1902–1903 are described below.

The amount of credit towards graduation assigned to each course is expressed by the terms *one hour*, *two hours*, etc., an hour of credit being given for the satisfactory completion of work equivalent to one exercise a week during one semester.

The Faculty reserves the right to withdraw, at the beginning of a semester, the offer of any study not chosen by at least five persons.

ASTRONOMY AND METEOROLOGY.

A—*Astronomy; Meteorology.* 2 hours.

Tuesdays, Thursdays, 2.

Professor HOUGH.

First Semester.—General Astronomy.

Second Semester.—General Astronomy completed and Meteorology.

BIBLICAL LITERATURE.

A—*Introduction to the English Bible.* 2 hours.

Wednesdays, Fridays, 2.

Professor PATTEN.

First Semester.—How the Bible came to be. The evolution of the English Bible. The English of the Bible. The Bible and English literature.

Second Semester.—The Bible as literature. Lectures and required readings, with papers on the various topics considered.

Text used: The American Standard Revised Version. Moulton's Modern Readers' Bible.

B—*The Gospel of Luke.* 2 hours.

Tuesdays, Thursdays, 2.

Professor PATTEN.

First Semester.—A study of the Synoptic Gospels, with Luke as a basis.

Second Semester.—The Christ of the Gospels as the central point of the Christian Evidences.

Text: Cambridge Bible for Schools and Colleges.

Rowe's Manual of the Christian Evidences.

C—*Biblical History.* 2 hours.

Wednesdays, Fridays, 3.

Professor PATTEN.

First Semester.—History of the Hebrews, from the Conquest to the Exile.

Second Semester.—History of the Jews, from the Exile to the Christian Era.

Text: Lectures, and required readings. Kent's Historical series.

D—*Acts of the Apostles and the Epistles.* 2 hours.

Tuesdays, Thursdays, 4.

Professor PATTEN.

First Semester.—The Acts of the Apostles. An inductive study of the era of Apostolic Christianity.

Second Semester.—Selected Pauline Epistles.

Text: Cambridge Bible for Schools and Colleges, with lectures and required readings.

E—*History of Religion.* 2 hours.

Tuesdays, Thursdays, 3.

Professor PATTEN.

First Semester.—An inquiry into the origin of religion, with a survey of the principle religions of the world in their rise and development.

Text: Menzies' History of Religion, with required readings and papers.

Second Semester.—The History and Development of Christian Missions.

The main text in this course will be Warneck's History of

Protestant Missions which will be accompanied by lectures and required readings in selected mission history and literature.

F—*Comparative Religions and the History of Christian Missions.* 2 hours.

Hours to be arranged.

Professor LITTLE.

This course is given in Garrett Biblical Institute.

Major: Ten year-hours.
Minor: Six year-hours.
For *Greek New Testament*, see under Greek (Course N).
For *Hebrew Old Testament*, see under Hebrew (Courses A and B).
For *History of the Christian Church*, see under History (Course L).

BOTANY.

A—*Biology of Plants.* 4 hours.

Mondays, Wednesdays, 2–4; Tuesdays, Thursdays, 2.

Professor ATWELL and Miss TAYLER.

The course covers the biology, morphology and life-cycles of typical plants selected from the more important natural groups. Ecology and classification receive special attention during the month of May. Laboratory and field work, with quizzes and informal lectures. Atkinson's Elementary Botany.

B—*Flowering Plants.* 3 hours.

Mondays, Wednesdays, Fridays, 8–10.

Professor ATWELL.

First Semester.—Histology and general morphology of the more common orders of flowering plants.

Second Semester.—Organography, classification and ecology of the following plants.

C—*Physiology of Plants.* 3 hours.

Mondays, Wednesdays, Fridays, 10–12.

Professor ATWELL and Miss TAYLER.

The course is experimental, and should be preceded by one

course in botany or general biology. Course A in Chemistry is also very desirable.

Courses A, B and C constitute a good preparation for teaching botany in secondary schools.

D—*Cryptogamic Botany.* 2 hours.

Tuesdays, Thursdays, 10–12.

Professor ATWELL.

Comparative morphology of ferns, mosses, algæ, mushrooms and toadstools. Laboratory work, lectures, and field work. No text-book. Books of reference are provided. Should be preceded by Course A, or an equivalent. May be taken with Course C or B. Given in 1902–3 as a three-hour course, alternates with Course E.

E—*Bacteria; Yeast; the Lower Fungi.* 2 hours.

Tuesdays, Thursdays, 10–12.

Professor ATWELL.

The cultivation in artificial media of bacteria of air, water, milk, and ice; the study of their physiology, morphology and relation to fermentation and putrefaction. The study of yeast in relation to fermentation; and of the lower fungi, as slime-moulds, fruit-moulds, mildews and rusts in their relations to plant life.

Open to those who have completed Botany A or Zoölogy A and an elementary course in Chemistry. Alternates with course D. Given in 1903–4.

PRIMARILY FOR GRADUATES.

F—*Advanced Physiology of Plants.* 2–5 hours.

Hours to be arranged.

Professor ATWELL.

Extended experimental work upon definite physiological problems.

Open to students who have completed courses A, B, and C, and an elementary course in Chemistry.

G—*Special Problems in Plant Life.* 3–5 hours.

Hours to be arranged.

Professor ATWELL.

Open to students who have completed the major require-

ment in botany or biology. Problems involving original investigation will be assigned to suit the needs of individual students.

Major: A and six additional year-hours.

Minor: A and three additional year-hours.

CHEMISTRY.

A—*General Chemistry.* 4 hours.

Section I. Tuesdays, Wednesdays, Thursdays, 1:30–4.
Section II. Mondays, Fridays, 1:30–4.
Tuesdays, Thursdays, 1:30–2:30.

Professor YOUNG, Mr. GLOSS, and Mr. PEARCE.

Lectures and laboratory work, which includes in the last of the course the introduction to Qualitative Analysis.

B—*Qualitative Analysis continued, and Organic Chemistry.* 4 hours.

Mondays, Fridays, 1:30–4: Wednesdays, 1:30–4:30.

Professor YOUNG, Mr. GLOSS, and Mr. PEARCE.

Lectures, text, and laboratory work; the Organic Chemistry begins in January after the recess.

Course B open to those who have completed A.

C—*Quantitative Analysis: First Semester, Gravimetric; Second Semester, Volumetric.* 4 hours.

Tuesdays, Thursdays, 1:30–4:30; Wednesdays, 10–12.

Professor YOUNG, Mr. GLOSS, and Mr. PEARCE.

Course C open to those who have completed A.

D—*Problems in the Application of Qualitative and Quantitative Analysis.* 2 hours.

Tuesdays, Thursdays, 10–12.

Professor YOUNG, Mr. GLOSS, and Mr. PEARCE.

First Semester.—Examination of water, mainly from the sanitary standpoint.

Second Semester.—Examination of milk, butter, and other fats and oils.

An alternative topic is iron and steel analysis.

Course D is open to those who have completed A, B, and C.

E—*Advanced Course.* 2 hours.

Professor YOUNG.

Students in D and others are offered an additional course of reading on somewhat advanced topics. The work has been based on Ostwald's Outlines of General Chemistry.

Major: A, B, and C.

Minor: A and B.

ECONOMICS, FINANCE, AND ADMINISTRATION.

GENERAL STATEMENT.

Courses A, C, and G in Economics require no introductory course, and any two of them may be taken together; but those who desire to take advanced courses in the subject should take Course A as a first course. Course F is supplementary to Course C and should be taken with that course. Those wishing to make a major in this department (ten year-hours) should begin the work in their second year in college, *but no student will be admitted to any of the courses until he has thirty hours of college credit*, except by special permission of the instructor in charge. Those desiring to specialize in Economics should have a good knowledge of general history, which may be gained in Course AB in History. History BC is recommended for those who take Economics D or H, History CD for those who take Economics B, and History G for those who take Economics C.

A—(1) *Economic Theory and* (2) *The Economics of Transportation.* 3 hours.

Mondays, Wednesdays, Fridays, 10.

Professor GRAY.

First Semester.—An introductory and elementary course in Economic Theory. Recitations, lectures, and frequent written tests.

Course A furnishes the best preparation for the advanced courses offered in the department.

Walker's Political Economy (advanced course) is used as the chief text.

Second Semester.—Transportation. An elementary course in the theory and history of transportation. The modern era of turnpikes and canals. The development of the railroad, including the organization, management and consolidation of corporations, the question of rates and of public control, state and federal. The railroad as a prime factor in the development of commerce and industry. Hadley's Railroad Transportation and the Reports of the Interstate Commerce Commission are used as guides.

AB—*The Development of Economic Theory in the Nineteenth Century.* 2 hours.

Wednesdays, Fridays, 10.

Assistant Professor GEORGE.

The purpose of this course is to acquaint the student with the theory and literature of Economics during the nineteenth century. Especial attention will be given to the later developments of the subject and to the training of the student in the critical consideration of economic principles and the analysis of economic conditions. As a preliminary study to the period the important chapters in Adam Smith's Wealth of Nations and the opening chapters in Malthus's Essay on Population will be read and discussed; after which the leading features of the contributions made by Ricardo, Mill, and Cairnes, and some of the later writings of the German economists will be considered. Theories of value, diminishing returns, rent, wages, interest, profit, the incidence of taxation, the value of money, international trade, and monopoly price will be examined. In the second half-year especial attention will be given to the theory of distribution as developed in Marshall's Principles of Economics, Böhm-Bawerk's Positive Theory of Capital, Taussig's Wages and Capital, and Clark's Distribution of Wealth.

The course will be conducted by lectures and discussions and is open to those who have taken Course A or an equivalent.

B—*Administration.* 2 hours.

Wednesdays, Fridays, 8.

Professor GRAY.

A course in administrative law and the comparative theory and history of administration of the leading modern nations. The course will treat of the general field of administrative study and the nature of administrative law, the comparative central administration of the leading countries, together with a study of the legal relations existing between the different organs of administration. Special attention will be paid to the organization and functions of the diplomatic and consular services of the different countries, and to the civil service reform movement in the United States. Questions of local administration, with special reference to the organization and administration of cities in the chief modern countries, are emphasized.

Goodnow's Comparative Administrative Law is used as the chief guide. Frequent references are made to the decisions of the courts on administrative matters.

C—*Modern Industrial and Commercial History.* 3 hours.

Mondays, Wednesdays, Fridays, 11.

Professor GRAY.

The Industrial and Commercial History of Western Europe and America since the middle of the eighteenth century. The effects of modern inventions and political changes on trade and industry. The economic effects of the formation of the *Zollverein*, the adoption of Free Trade by England, the discovery of gold in California and Australia, the American Civil War, and the rapid extension and consolidation of the means of transportation. The effects of political changes in establishing new lines of trade and new centers of industry. The Spanish-American War, the increased supply of gold within the last decade and the effects of concentration in the control of industry receive special attention. The course is conducted by lectures, with prescribed topical readings. One written report of considerable length is required each semester.

Course C requires no previous training in Economics.

CD—*Early English Economic History.* 2 hours.

Tuesdays, Thursdays, 2.

Dr. WILLARD.

The chief subjects considered during the course are: The industrial and commercial history of England from the period of the Norman Conquest to the Industrial Revolution; the mediæval, agricultural, and industrial conditions; the organization and functions of the mediæval guilds; England's foreign trade during the Middle Ages; the decline of the mediæval system of agriculture and of industry, and the rise of a national commercial policy; the Tudor industrial and trade regulations and the struggle for colonies. Lectures and assigned reading. One written topic will be required from the student each semester.

D—*Finance; Money and Banking.* 3 hours.

Mondays, Wednesdays, Fridays, 9.

Assistant Professor GEORGE.

First Semester.—*Public Finance*, with especial reference to

modern systems of taxation. Objects and methods of public expenditure; equilibrium of the budget; public loans; the relation of public financiering to private economy. In taxation a comparative study is made of the various systems in leading modern countries; and in the United States, the relation between existing methods of taxation and the present industrial organization is given especial attention.

Second Semester.—*Money and Banking.* The evolution of money; the standards of various countries, together with an historical survey of the different kinds of money used in the United States; banking functions in the modern business world; clearing houses and systems of credit and their relation to the trade and industry of the country, receive especial consideration.

During the first semester Adams's Science of Finance is used, and during the second semester Dunbar's Theory and History of Banking and the report of the Monetary Commission serve as guides. The class-room work of the second semester is supplemented by visits to some of the great commercial institutions in Chicago, such as the Chicago Board of Trade, the Chicago Clearing House, and leading banking establishments. For requirements of admission see the general statement preceding the announcement of Course A. The work is conducted by lectures and discussions. Brief written reports on selected topics are required.

E—*Seminary.* 3 to 6 hours.

Tuesdays, 2–4 (October 1 to May 1).

Professor GRAY and Assistant Professor GEORGE.

The seminary is open to graduates and to a limited number of undergraduates who seem to the instructors prepared to make original investigations. No one will be allowed to register for less than three hours a week *throughout the year.* An undergraduate may not register for more than three hours except by permission of the Faculty.

Room 20 in the Library building, containing a considerable library and a table, with lock-drawer for each student, is set apart for the exclusive use of the members of this seminary.

Subjects for investigation can be definitely announced only after consultation with those who expect to take the work, the greatest liberty of choice being allowed each student.

The subjects for the current year (1902-3) are: (1) "A Study of Some Phases of Life Insurance;" (2) "The Growth

and Development of the Building Trades Organizations of Chicago;" and (3) "A Study of Asset Currency and Branch Banking." For the year 1903-4, the following subjects are suggested: (1) "Employers' Liability for Industrial Accidents in the United States," and (2) "A Study of Child Labor in Chicago."

F—*Commercial Geography and International Trade.* 1 hour.

Mondays, 8.

Professor GRAY.

A general survey of modern commerce. The mechanism, organization, and instruments of international trade; the factors determining the values of commodities: the points of origin and methods of producing and preparing for the market and transporting the more important articles entering into the commerce between nations; the relation of the government and of centers of production to national commercial supremacy.

Chisholm's Hand Book of Commercial Geography is used in connection with government publications on trade and industry.

Course F is supplementary to Course C and may well be taken in connection with it.

No credit will be given in Course F until the work of the year is completed.

G—*The Labor Question in Europe and the United States.* 3 hours.

Mondays, Wednesdays, Fridays, 8.

Assistant Professor GEORGE.

The purpose of this course is to acquaint the student with the economic condition of the working-classes in Europe and the United States and to discuss the relation of labor organizations to capital in the production and distribution of wealth. There is a careful study of the rise and growth of labor organizations, and of the fiscal and industrial organization of capital; the development of the labor contract, and of collective bargaining; state and private efforts for the prevention and the adjustment of industrial disputes; methods of industrial remuneration; the shorter working day; workingmen's insurance; employers' liability and compulsory compensation acts; provident institutions, such as savings banks, friendly societies, and fraternal benefit orders; and the problem of the unemployed. During the year excursions are made to some of the

leading mills and factories and to representative tenement-house and sweat-shop districts in Chicago.

This course requires no previous training in Economics.

Lectures, discussions, and a systematic course of prescribed reading; one written report on a selected topic each semester.

H—*Financial and Tariff History of the United States.* 2 hours.

Tuesdays, Thursdays, 8.

Assistant Professor GEORGE.

First Semester.—*The Financial History of the United States.* A comprehensive review is made of the subject from 1789 to the present time, with special study of Hamilton's financial system, the struggle concerning the second Bank of the United States, and of the finances of the Civil War and the period of suspended payments.

Bolles' Financial History, 1789–1860, and Noyes' Thirty Years of American Finance are used as guides. The leading acts of Congress upon financial subjects receive careful attention, and selected topics for investigation are assigned.

Second Semester.—*The Tariff History of the United States.* The economic condition of the country prior to the Revolution and the commercial relations of the colonies to the mother country are discussed. Then a study is made of the successive tariff acts and their influence upon domestic industry and upon commerce and international trade. Especial emphasis is laid upon the period following the Civil War, and careful consideration will be given to the more recent development of the subject as a result of the Spanish-American war.

Taussig's Tariff History of the United States and Taussig's State Papers and Speeches on the Tariff are used as general texts. Other reading from various writers is prescribed and the investigation of selected topics is required.

Lectures and discussions.

For requirements of admission to the Course see the note preceding the announcement for Course A.

Major: A or G and seven additional year-hours.

Minor: A or G and three additional year-hours.

Those making a major in Economics are recommended to make a minor in History.

Courses Preparing for Business and the Public Service.

Students who are preparing for a business career or for the public service will find ample opportunities for study along lines

helpful to them in the departments of Economics and History. The program of required studies for any Bachelor's degree is such that the student may devote nearly the whole of the third and fourth years of the course to special study in these departments, and he may also give some time to work in these departments in the second year.

If registered for the degree of Bachelor of Science the required studies will include both French and German, and students planning for business or for the public service are advised in any case to secure a good reading knowledge of both of these languages. An acquaintance with the elements of at least two sciences should also be secured.

After the introductory courses in the two departments of Economics and History, in which he will best make his major and minor, the student will find Courses D, F, and H in Economics more intensive, offering special advantages for those preparing for a business or commercial career; while Course B in Economics and Course H in History are especially valuable for those who wish to prepare for the public service. The Seminary Course in either department offers to advanced students opportunity for original and detailed investigation of special subjects.

In addition to the advantages offered in this program of studies students have the advantage of public lectures delivered at the University by representative men of practical experience in the commercial world and in public administration. During the year 1902-1903 the following course was given:

1. Mr. J. Keeley,
   Managing Editor Chicago Tribune.
   "Newspaper Making."

2. Mr. Dorr A. Kimball,
   Credit man Marshall Field & Co. (wholesale).
   "The Credit Department of Modern Business."

3. Mr. A. W. Kimball,
   General Agent Northwestern Mutual Life Insurance Company.
   "Life Insurance."

4. Mr. W. D. C. Street,
   Manager Chicago Clearing House.
   "The Clearing House System."

5. Mr. David R. Forgan,
   Vice-President First National Bank of Chicago.
   "Investments."

6. Mr. A. F. Dean,
   Assistant Manager Western Department Springfield Fire and Marine Insurance Co.
   "Fire Insurance."

7. Mr. Frank P. Crandon,
   Tax Commissioner Chicago & Northwestern Railway Company.
   "Taxation of Corporate Property."

8. Mr. James H. Eckels,
   Ex-Comptroller of the Currency; President Commercial National Bank of Chicago.
   "Our Government's Fiscal Policy."

ELOCUTION.

A—*First Course.* 2 hours.

Section I. Mondays, Wednesdays, 4.
Section II. Tuesdays, Thursdays, 4.

Professor Cumnock.

Russell's Manual of Elocution and Cumnock's Choice Readings are used. Instruction is given in the management and regulation of the breath; the proper use of the body in the development of vocal energy; the most advanced knowledge of English Phonation; the most approved methods of acquiring distinct articulation; the function of the natural and orotund voices; the application of force, stress, pitch, rate, quantity, and emphasis, and their importance in the dynamics of expressive speech; the use of inflection for the purpose of emphasis and melodious effect; the fundamental principles of gesture and their application. Specific instruction will be given as to how exhaustion of the body in speaking may be prevented; how sore throat, occasioned by an over-use or wrong use of the vocal organs, may be avoided; how harsh quality of voice may be removed, and pure musical quality acquired; how mannerisms in melody and inflectional forms may be remedied; how awkwardness in gesture may be conquered; what is the best time for vocal practice, and how it should be regulated.

B—*Study of Masterpieces of English Eloquence.* 2 hours.

Section I. Tuesdays, Thursdays, 8.
Section II. Wednesdays, Fridays, 8.

Professor Cumnock.

The chief object in Course B is to establish the student in the best literary and elocutionary form, by bringing him in contact with the most perfect models. In the second semester of this course the English of Shakespeare will be studied with the help of Abbott's Shakespearean Grammar.

C—*Principles of Vocal Expression.* 2 hours.

Mondays, Fridays, 9.

Professor CUMNOCK.

Course C is designed especially for the year of graduation. Great stress will be laid upon the acquisition of perfect form in common reading and oratorical address. The written productions required each semester will be carefully examined, and whenever needed, the class instruction in English style will be supplemented by personal advice and criticism.

D—*Bible, Hymn, and Liturgic Reading.* 2 hours.

Mondays, Fridays, 11.

Professor CUMNOCK.

As a result of the work in Course D, it is expected that the student will have the skill to read, with melodious effect and expressive power, the Bible, hymn book, and liturgy.

ENGINEERING. See under Physics.

THE ENGLISH LANGUAGE.

A—*Rhetoric; Synonyms. Eight Essays.* 3 hours.

Section I. Mondays, Wednesdays, Fridays, 8.
Section II. Mondays, Wednesdays, Fridays, 9.
Section III. Mondays, Wednesdays, Fridays, 10.
Section IV. Mondays, Wednesdays, Fridays, 10.
Section V. Mondays, Wednesdays, Fridays, 11.
Section VI. Mondays, Wednesdays, Fridays, 11.
Section VII. Mondays, Wednesdays, Fridays, 2.

Professor CLARK, Dr. KELLOGG, and Mr. ODELL.

First Semester.—A practical drill in the avoidance of the common violations of good style.

Second Semester.—Rhetorical imagery and synonyms.

All students, unless excused by the registration committee, will take English Language A during their first year in

residence. Students who show, early in the first semester, that they are seriously deficient in elementary English, will be required to take additional work in this subject for such time as may be found necessary. No credit will be given for any part of Course A in the English Language till the whole course, including the additional work already mentioned, shall have been completed.

B—*Prose Masterpieces; Paragraphing.* 2 hours.

Section I. Tuesdays, Thursdays, 9.
Section II. Tuesdays, Thursdays, 10.

Professor CLARK.

First Semester.—A study of the diction and the distinctive characteristics of twenty-four great writers of prose.

Second Semester.—Paragraphing. The study of masterpieces continues till about April 1. Each member of the class in paragraphing writes two themes each week.

Open to all who have had Course A.

C—*Versification; Poetic Masterpieces.* 2 hours.

Wednesdays, Fridays, 9.

Professor CLARK.

First Semester.—A study of the mechanics of English versification.

Second Semester.—A study of the diction and the distinctive characteristics of twenty great poets. This work begins about November 1, during the first semester.

Open to all who have completed Course A.

D—*History of the English Language; Anglo-Saxon; Early English.* 2 hours.

Tuesdays, Thursdays, 3.

Professor CLARK.

After spending about three weeks in reviewing the history of the English language, the class takes up briefly the outlines of Anglo-Saxon grammar. The larger part of the college year is then devoted to the reading of selections from fifteen pre-Chaucerian authors, from Bæda to Gower, inclusive.

Open to all students who have completed Course A and at least one course in German.

E—*Forensics.* 2 hours.

Hours to be arranged.

Professor CLARK.

Open to all who have completed Course A. The class meets in small sections, and each member debates once a week on questions previously assigned. Reading references are given and briefs required.

F—*Editorial Writing.* 2 hours.

Wednesdays, Fridays, 10.

Professor CLARK.

Every member of the class writes two short articles each week during the college year.

Open to all who have had Courses A and B.

G—Biblical English. 3 hours.

A course in the diction, imagery, and idiom of the English Bible. For graduates only.

Hours to be arranged.

Professor CLARK.

Major: A and B and six additional year-hours, which may include Greek F if not used towards a major in Greek.

Minor: A and B and two additional year-hours.

ENGLISH LITERATURE.

A—*The History of English Literature.* 2 hours.

Section I. Mondays, Wednesdays, 9.
Section II. Mondays, Fridays, 9.

Professor THORNDIKE.

This course is intended to supply the student with the general outline and important facts of the history of literature and to serve as an introduction to the other courses in the department. Lectures, recitations, and a considerable amount of reading.

Required of all students in regular courses. Students are expected to take the course as early as the second year, if possible.

B—*The History of American Literature.* 2 hours.

Tuesdays, Thursdays, 8.

Assistant Professor CROW.

First Semester.—American Literature from 1607 to 1837.
Second Semester.—American Literature from 1837 to 1900.

C—*Chaucer.* 2 hours.

Tuesdays, Thursdays, 9.

Professor THORNDIKE.

A careful study of a large body of Chaucer's poetry.

Not given in 1903–4.

D—*Shakespeare and the Elizabethan Drama.* 3 hours.

Mondays, Wednesdays, Fridays, 11.

Professor THORNDIKE.

First Semester.—Lectures on the Pre-Shakespearian Drama and the reading of a number of plays. A careful and detailed study of three of Shakespeare's plays; for 1902–3, Richard II, King Lear, the Tempest.

Second Semester.—All of Shakespeare's plays are read in chronological order. Lectures on the development of Shakespeare's art, with especial attention to his relations to contemporary dramatists.

E—*Non-dramatic Poetry in the Sixteenth and Seventeenth Centuries.* 2 hours.

Professor THORNDIKE.

First Semester.—Spenser and his contemporaries.
Second Semester.—Milton and his contemporaries.
Not given in 1903–4.

F—*Classicism 1660–1789.* 2 hours.

Tuesdays, Thursdays, 11.

Professor THORNDIKE.

First Semester.—From the Restoration to the death of Pope, 1660–1745; Classicism in Poetry; the rise of the Essay; the development of Prose; the development of the Novel.

Second Semester.—From the death of Pope to the French Revolution, 1745–1789; the decline of Classicism; the beginnings of Romanticism.

Given in 1903–4 and in alternate years.

G—*The Romantic Movement 1789–1830.* 2 hours.

Tuesdays, Thursdays, 10.

Professor THORNDIKE.

First Semester.—Burns, Cowper, Wordsworth, Coleridge, Southey, Lamb, Hazlitt.

Second Semester.—Scott, Byron, Keats, Shelley, Leigh Hunt, De Quincey.

Given in 1903–4 and in alternate years.

H—*English Poetry in the Nineteenth Century 1830–1900.* 2 hours.

Tuesdays, Thursdays, 11.

Professor THORNDIKE.

First Semester.—Tennyson, Mrs. Browning.

Second Semester.—Browning, Matthew Arnold, Clough, the Rossettis, and other poets of the period.

Given in 1902–3 and in alternate years.

I—*English Prose from 1830 to 1880.* 2 hours.

Wednesdays, Fridays, 8.

Professor THORNDIKE.

First Semester.—Carlyle, Newman, Emerson.

Second Semester. — Matthew Arnold, Ruskin, Pater, Thackeray, Dickens, George Eliot, Meredith.

These writers are studied as representatives of the thought and life of the period. A large amount of reading is required, and papers on topics suggested by the course.

Given in 1902–3 and in alternate years.

J—*The Development of the Novel in English.* 2 hours.

Tuesdays, Thursdays, 9.

Assistant Professor CROW.

First Semester.—Mediæval and Elizabethan prose narratives; the classic novelists.

Second Semester.—Study of selected nineteenth-century novels; the short story.

Major : A and eight additional year-hours, which may include English Language D.

Minor : A and four additional year-hours.

GEOLOGY.

A—*General Geology; Physiography.* 3 hours.

Mondays, Wednesdays, Fridays, 10.

Professor GRANT.

A general introduction, including dynamical, structural and historical geology, followed by physiographic geology and the physiography of the United States. Lectures, recitations, readings, and the study of specimens, maps, and models.

In this course, and in the other courses in geology, part of the work consists of excursions taken into the adjacent country for the study of geological phenomena in the field.

A knowledge of the elements of chemistry and physics will be advantageous to those taking courses in geology, and will be necessary for those who take a major in geology.

Course C may be taken conveniently in connection with Course A.

AA—*Geology and Physiography.* 2 hours.

Professor GRANT.

This course is intended for teachers, and not for regular college students. In 1902–3 it was given on Thursdays at 4:30. It will be repeated in 1903–4, provided a sufficient number desire it, at such hours as may be agreed upon.

B—*Economic Geology.* 2 hours.

Tuesdays, Thursdays, 11.

Professor GRANT.

The materials of economic importance obtained from the earth's crust are to be studied from the standpoints of geological relations, origin, geographical distribution, exploration, use, etc. The chief subjects considered are coal, natural oil and gas, building materials, soils, ores of the important metals (such as iron, copper, lead, zinc, silver, gold), and water supply.

Open to those who have completed Geology A or Mineralogy A. The second semester of Course B may be taken without the first.

C—*Practical Geology.* 2 hours.

Tuesdays, Thursdays, 10.

Professor GRANT.

A more extended study than is given in Course A of important topics of dynamical and structural geology; methods of geological work; preparation of a geological and topographical map of a small area. Owing to the nature of the work, part of the time devoted to this course must be given on afternoons or Saturdays instead of at the hours mentioned above.

Open to those who are taking or who have completed Course A. The second semester of Course C may be taken without the first.

D—*Paleontology; Historical Geology.* 2 hours.

Hours to be arranged.

Professor GRANT.

First Semester.—Paleontology. A discussion of the principles of paleontological geology and a study of the more important groups of fossils.

Second Semester.—Historical Geology. A study of historical geology, with special reference to the stratigraphy of the United States, the development of the North American continent, and the life characteristic of the different periods.

Open to those who have completed Course A.

E—*Petrology; Elementary Course.* 3 hours.

Hours to be arranged.

Professor GRANT.

The first part of the course is devoted to the study and determination of the common rock-forming minerals by means of the petrographical microscope, and the second part is devoted to the study of the more important rocks.

Open to those who have completed Geology A or Mineralogy A.

NOTE:—It is expected that of Courses B, D, and E not more than two will be given in any one year. Students desiring to take any of these three courses should consult with the instructor before registering.

F—*Advanced Course.*

Hours and time to be arranged.

Professor GRANT.

Students who have completed certain of the preliminary courses may take up the study of some particular phase of geology, or of the geology of some particular district.

G—*Primarily for Graduates.*

Hours and time to be arranged.

Professor GRANT.

Graduate work is offered along the following lines: (*a*) *Advanced Petrology.* (*b*) *Pre-Cambrian Geology.* A study of the principles and methods used in investigating the non-fossiliferous rocks, followed by a study of the geology of the Lake Superior region with special reference to the formations which contain the extensive deposits of copper and iron ores. (*c*) *Research Work.* Investigating along certain lines, especially the geology of some particular district.

It is expected that work along *both* (*a*) and (*b*) above will not be given in one semester, while work under (*c*) may be carried on at any time.

Major: A and seven additional year-hours which may include Mineralogy A.

Minor: A and three additional year-hours.

GERMANIC LANGUAGES AND LITERATURES.

AA—*Elementary Course.* 5 hours.

Mondays, Tuesdays, Wednesdays, Thursdays, Fridays, 2.

Mr. EDWARD.

Pronunciation, grammar, selections in prose and verse, German composition. Open to those who have less than 15 year-hours college credit.

This course may not be taken to remove language requirements for admission.

AB—*Elementary Course.* 4 hours.

Section I, Mondays, Tuesdays, Thursdays, Fridays, 8.
Section II, Mondays, Tuesdays, Thursdays, Fridays, 10.

Professor CURME (Section I). Dr. SIMPSON (Section II).

Pronunciation, grammar, selections in prose and verse, German composition.

This course may not be taken to remove language requirements for admission.

(b)—*Elementary Course, Second Unit.* 4 hours.

Mondays, Tuesdays, Wednesdays, Thursdays.

Miss BATES.

Grammar, reading, German composition. Open to those students who have offered but one unit of German for admission to college.

A—*Intermediate Course.* 4 hours.

Section I, Tuesdays, Wednesdays, Thursdays, Fridays, 9.

Section II, Tuesdays, Wednesdays, Thursdays, Fridays, 10.

Section III, Tuesdays, Wednesdays, Thursdays, Fridays, 11.

Dr. SIMPSON (Section I). Mr. EDWARD (Sections II and III).

First Semester.—Lessing's Minna von Barnhelm and Emilia Galotti; German lyrics and ballads; Schiller's Wilhelm Tell; German composition once a week.

Second Semester.—Lyrics and ballads; Schiller's Maria Stuart; Goethe's Hermann und Dorothea; German composition.

Open to those who offer "a" and "b" for entrance, and to those who have completed AA or AB.

BB—*Classical Prose and Poetry; Composition.* 4 hours.

Mondays, Tuesdays, Thursdays, Fridays, 11.

Dr. SIMPSON.

Lessing, Goethe, Schiller, Heine and Grillparzer.

This course is planned especially for those students who have had three years' secondary work in German.

B—*Goethe's Life and Works, 1749-1790.* 3 hours.

Section I, Mondays, Wednesdays, Fridays, 8.

Section II, Mondays, Wednesdays, Fridays, 11.

Professor HATFIELD (Section I). Professor CURME (Section II).

First Semester.—Dichtung and Wahrheit, Goetz von Berlichingen, Werther, and the earlier lyrics. Study of the life of Goethe, for which purpose the possession of Heinemann's Goethe is very desirable.

Second Semester.—Lyrics, Egmont, Iphigenie, Tasso, Italienische R ise.

Course H may suitably be combined with this course.

Open to those who have taken Course A. Course B may be taken a second time, with new subject, for a credit of two hours.

C—*German Literature.* 3 hours.

Mondays, Wednesdays, Fridays, 3.

Professor HATFIELD.

First Semester.—Volkslied and Kirchenlied.

Second Semester.—The Romantic Movement and the Swabian School.

Open to those who have completed Course B. The ability to interpret German works by an effective oral rendition of the original, as well as to take lectures delivered in German, is presupposed.

Given in 1903–1904.

D—*Goethe and Schiller.* 3 hours.

Mondays, Wednesdays, Fridays, 3.

Professor HATFIELD.

First Semester.—Goethe's life and works, 1790–1832.

Second Semester.—Schiller's life and works.

Open to those who have completed Course B, under the conditions mentioned under Course C.

Not given in 1903–1904.

E—*Advanced Group.* 2 hours.

Tuesdays, Thursdays, 8. (Subject to change.)

Professor HATFIELD.

The themes considered will be those described under Course C, the distinction being made that the students enrolled under E will be engaged in more special studies upon the points treated, with the help of the abundant literature contained in the libraries which are accessible. This course, which is given on the seminary plan, is intended chiefly for graduate students, and in all cases enrollment will be at the discretion of the instructor. As far as opportunity allows, suitable original work will be brought to publication.

F—*Goethe's Life and Works, 1749–1790.* 2 hours.

Tuesdays, Thursdays, 3.

Dr. SIMPSON.

Open to those who have had Course B.

G—*Colloquial German.* 1 hour.

Tuesdays, Thursdays, 9.

Mr. EDWARD.

Meissner's German Conversation, Kron's German Daily Life, and other material. Open to all who have had one year's German, and to others by special permission. The two hours of this course count as one hour in term-credits.

H—*Advanced German Composition.* 2 hours.

Mondays, Wednesdays, 8.

Mr. EDWARD.

Von Jagemann's Syntax and Prose Composition; White's Selections for German Prose Composition with specially assigned original work. International correspondence with students living in Germany. Open to those who have had Course A, or its equivalent.

J—*Modern German Drama.* 2 hours.

Tuesdays, Thursdays, 4.

Professor CURME.

Two courses are given in Modern German Drama in alternate years. The aim of these courses is to present a general outline of German life in the nineteenth century as reflected in the drama, exclusive of the classical works of Goethe and Schiller, which belong more properly to the study of the preceding century. The character of the several periods, the formative influences at work, the lines of literary development, are carefully traced in the form of lectures, but the main work consists in reading and studying a large number of representative masterpieces in order that the student may receive the pleasure and benefit of direct acquaintance with the literature.

(a) First Half of Century. Heinrich von Kleist, Grillparzer, Raimund, Gutzkow, Hebbel, Otto Ludwig.

Given in 1902–1903.

(b) Second Half of Century. Anzengruber, Wildenbruch, Sudermann, Hauptmann, Fulda, Georg Hirschfeld, Otto Ernst.

To be given in 1903–1904.

K—*Gothic and Old High German.* 4 hours.

Hours to be arranged.

Professor CURME.

First Semester.—Gothic. Streitberg's Gotisches Elementarbuch, Stamm-Heyne-Wrede's Ulfilas, Uhlenbeck's Wörterbuch der gotischen Sprache, and Grienberger's Untersuchungen zur gotischen Wortkunde.

The study of Gothic lies at the very base of the thorough study of all Germanic languages, and hence is fundamentally essential to all students who intend to study German or English historically. The phonology and inflectional systems of the language are carefully studied to secure a good basis for future work. About one hundred pages of Gothic text are read. Daily exercises in etymology, word-formation, vowel gradation, application of Grimm's and Verner's laws, etc.

Second Semester.—Old High German. Braune's Althochdeutsche Grammatik is studied carefully to secure a good basis for the study of the growth and development of High German. Braune's Althochdeutsches Lesebuch is translated into the modern idiom, accompanied by the study of the photographic reproductions of the old manuscripts of this period in Enneccerus' Die ältesten deutschen Sprachdenkmäler and Hench's Der althochdeutsche Isidor. Daily discussion of language and literary questions.

L—*Middle High German; Old Saxon; Comparative Grammar.* 4 hours.

Hours to be arranged.

Professor Curme.

First Semester.—The study of the growth and development of High German begun in Course K is continued here. The work is based upon Michels' Mittelhochdeutsches Elementarbuch and the study of the texts read. On account of the beauty of the classics of this period and the valuable pictures they give of the life of the Middle Ages, more attention is paid to literature for its own sake than in the older periods, where language questions claimed relatively more consideration. The following masterpieces are read: Zarncke's edition of the Nibelungenlied, in connection with a brief comparative study of other texts of this epic; Hartmann von Aue's Iwein; Walther von der Vogelweide's poems.

Second Semester.—Old Saxon. Comparative grammar.

(a) Old Saxon. Holthausen's Altsächsisches Elementarbuch, Behaghel's Heliand accompanied by the study of the photographic reproductions of the old manuscripts of this period in Gallée's Facsimilesammlung. (2 hours weekly.)

(b) Comparative Grammar. The phonology and inflec-

tional systems of the Germanic languages are compared with one another and those of other languages of the Indo-European family. Streitberg's Urgermanische Grammatik, Hirt's Der Indo-Germanische Ablaut and Dieter's Altgermanische Dialekte are used as texts. (2 hours weekly.)

M—*Icelandic* (*Old Norse*). 2 hours.

Hours to be arranged.

Dr. SIMPSON.

Kahle's Altisländisches Elementarbuch. Selections from the Younger and Elder Edda. Text-books: Hildebrand's Lieder der älteren Edda; Gering's Glossar zu den Liedern der Edda; Noreen's Altnordische Grammatik.

For advanced and graduate students; the course to be given provided not less than three students elect the same.

For Norwegian-Danish and Swedish, see the catalogue under these heads.

Courses B, G, and H should be taken by all who intend to become teachers of German in secondary schools.

Major: A (or BB) and B and six additional year-hours.

Minor: A (or BB) and B.

GREEK LANGUAGE AND LITERATURE.

AA—*White's First Greek Book Complete and the First Book of Xenophon's Anabasis. Greek Composition.* 5 hours.

Mondays, Tuesdays, Wednesdays, Thursdays, Fridays, 10.

Professor SCOTT.

This course may not be taken to remove language requirements for admission.

AB—*Xenophon's Anabasis, Books II, III, IV. Thirty lessons in Greek Composition, Homer's Iliad, three books.* 5 hours.

Mondays, Tuesdays, Wednesdays, Thursdays, Fridays, 8.

Mr. OWEN.

Courses AA and AB are designed for students who, entering college without Greek, desire to take up that study and complete the requirements for the degree of A. B.

A—*Lysias, Select Orations. Homer. Plato's Apology. Greek Composition based on the text.* 4 hours.

Tuesdays, Wednesdays, Thursdays, Fridays, 9, 11.

Professors BAIRD and SCOTT.

Two sections, changing instructors at the mid-year.

B—*Xenophon's Memorabilia of Socrates. Sophocles' Antigone. Plato's Gorgias. Euripides' Medea.* 3 hours.

Mondays, Wednesdays, Fridays, 10.

Professor BAIRD.

C—*Selections from Greek Lyric Poets. Æschylus' Prometheus Bound. Aristophanes' Clouds. Euripides' Bacchæ.* 2 hours.

Tuesdays, Thursdays, 3.

Professor BAIRD.

Given in 1903–1904.

D—*Demosthenes on the Crown. Selections from Plato's Republic. New Testament. Lucian.* 2 hours.

Professor BAIRD.

Not given in 1903–1904.

F—*History of Greek Literature from Homer to Greek Church Fathers.* 3 hours.

Mondays, Wednesdays, Fridays, 3.

Professor BAIRD.

This course consists of lectures, and recitations based on translations. No knowledge of Greek is required. The aim is to secure familiarity with the great masterpieces of Greek literature. The course is especially important to those who expect to become teachers of literature.

Open to all students who have completed thirty hours.

G—*Homer and Epic Poetry.* 4 hours.

Not given in 1903–1904.

Professor SCOTT.

Homer will be read entire.

Students will prepare papers on assigned topics.

H—*Herodotus and Greek Lyric Poetry.* 4 hours.

Hours to be arranged.

Professor SCOTT.

N—*The Gospels according to Luke and John. The Acts of the Apostles.* 3 hours.

Tuesdays, Wednesdays, Thursdays, 10.

Professor HAYES.

This course is given in Garrett Biblical Institute.

Major: A and B and five additional year-hours, not including N.

Minor: A and B.

HEBREW.

A—*Elements of Hebrew Language.* 3 hours.

Tuesdays, Wednesdays, Thursdays, 8.

Mr. RAPP.

B—*Introduction to Hebrew Literature.* 2 hours.

Wednesdays, Fridays, 9.

First Semester.—Selections from poetic (including wisdom) literature.

Second Semester.—Prophetic literature.

Professor EISELEN.

C—*Graduate Courses.*

I. Studies in Isaiah.

II. Seminars (1) Study of Hosea, (2) Historic background of Old Testament prophecy.

III. Assyrian grammar and easy historical texts.

Professor EISELEN.

These courses are given in Garrett Biblical Institute.

Minor: A and B.

HISTORY.

NOTE:—The alphabetical arrangement of the courses does not signify that they shall be taken *only* in this order. In general, AB is regarded as an introductory course to the whole field of history. Either A, C, or BC may also be chosen as a first course. D, E, F, may be taken most profitably in the order named. G may be elected by those who have sixty semester-hours credit. Other students who desire to take this course must receive permission from the instructor in charge. L should be preceded by AB. The usual method of conducting the courses in History is by lectures, collateral reading, and text-books.

AB—*General History.* 3 hours.

Mondays, Wednesdays, Fridays, 10.

Assistant Professor WILDE.

This course is designed to give a general view of the field of history to 1789. It will serve as an introduction to the national histories, or to an intensive study of the periods of history.

First Semester.—To the Renaissance.

Second Semester.—To 1789.

No credit can be given for the first semester of this course to those students who have taken History D and E; nor in the second semester for those who have had History F and G.

A—*English History.* 3 hours.

Mondays, Wednesdays, Fridays, 3.

Dr. WILLARD.

English political history from the Anglo-Saxon period to the present day. In addition to the strictly political history of England, the development of governmental institutions and the condition of the church will receive some attention. The student will be required to do assigned reading in addition to the use of a text-book.

B—*English Constitutional History.* 2 hours.

Wednesdays, Fridays, 2.

Dr. WILLARD.

The constitutional history of England from the Anglo-Saxon period to the present day. The course is designed to show the historical development of the modern English government, with especial reference to Parliament. Intended especially for those students who expect to study law.

Open to all who have sixty semester-hours credit, after consultation with the instructor in charge.

C—*Colonial and Constitutional History of the United States.* 2 hours.

Tuesdays, Thursdays, 3.

Professor SHEPPARD.

First Semester.—Settlement of the Colonies, French and Indian War, and the Revolution.

Second Semester.—Constitutional History of the United States.

Probably will not be given in 1903–1904.

BC—*American History.* 3 hours.

Mondays, Wednesdays, Fridays, 11.

Professor JAMES.

The Political History of the United States from the Revolution. The formation of the Union, the rise and growth of parties, the influence of westward expansion and of slavery on the political life.

CD—*Modern Constitutional Governments.* 2 hours.

Tuesdays, Thursdays, 9.

Dr. WILLARD.

The object of this course is to acquaint the student with the leading features of the Constitution of the United States and of the more important European nations. The organization of the government of the United States will be thoroughly studied in the light of the Constitution and will be used for the purpose of comparison with other governments.

To be given in the first semester of 1903-1904, and is open to students who have thirty semester-hours credit, after consultation with the instructor in charge.

D—*Greek and Roman History.* 2 hours.

Tuesdays, Thursdays, 8.

Assistant Professor WILDE.

First Semester.—History of Greece from the earliest times to the Roman Conquest. Constant use of the library for the literature of the subject; reports on reading.

Second Semester.—History of Rome from the earliest times to the fall of the empire in the West. Assigned reading with reports on same, submission of a thesis.

Either semester of this course may be taken without the other.

Not given in 1903–1904.

E—*Continental Europe during the Middle Ages.* 3 hours.

Mondays, Wednesdays, Fridays, 8.

Assistant Professor WILDE.

This course is intended to furnish an outline of the history of Europe from the fall of Rome to about the middle of the thirteenth century. It deals with the political, religious, and intellectual development of the period. One thesis. Open to those having thirty semester-hours credit.

F—*The Renaissance and the Reformation.* 2 hours.

Tuesdays, Thursdays, 10.

Assistant Professor WILDE.

First Semester.—The Political History of Europe from the middle of the thirteenth century to the close of the fifteenth century; the Renaissance, especially in Italy,—the intellectual development, its contacts with antiquity and the Middle Ages, and its influences on modern life.

Second Semester.—The Reformation, especially in Germany France, and England; reforming movements before the Reformation; ecclesiastical, political, and social effects of the Reformation. A thesis.

Either semester of this course may be taken without the other. Open to those having thirty hours credit.

It is probable that this course will not be given in 1904-1905.

G—*European History since the Outbreak of the French Revolution.* 3 hours.

Mondays, Wednesdays, Fridays, 9.

Professor JAMES.

Political History, showing the progress of Democracy, and aiming to give an understanding of the present condition of European politics.

First Semester.—Causes and Events Connected with the Period of the French Revolution and the Napoleonic Wars.

Second Semester.—The Evolution of Constitutional Government in the European States; Unification of Germany and of Italy; the Eastern Question, and Present Political Conditions.

H—*Diplomatic History of the United States.* 2 hours.

Tuesdays, Thursdays, 11.

Dr. WILLARD.

History of the foreign relations of the United States from the beginning of the Revolution to our own time. Special attention is given to the commercial treaties following the

Revolution, annexations of territory, the relations with Spanish America, and the period of the Civil War.

I—*Methods of Teaching History, with Special Reference to the Work of the Secondary Schools.* 1 hour.

Hour to be selected.

Professor JAMES and Assistant Professor WILDE.

Open to those who make History their major and to others of suitable preparation after consultation with one of the Professors in charge.

To be given in the Second Semester.

J—*Teachers' Course.* 1 hour.

Hours to be selected.

Professor JAMES and Assistant Professor WILDE.

This course is intended primarily for the teachers of History in the schools of Evanston and vicinity. During the year 1902–1903, the work consisted of a study of American Colonial Institutions and lectures on some of the chief subjects in Mediæval History.

University credits may be secured if arranged for at the time of registration.

L—*Church History.* 3 hours.

Tuesdays, Wednesdays, Fridays, 10.

Professor LITTLE.

Post-Nicene History of the Christian Church. Christianity within the Roman Empire; the Struggle of the Church with Paganism, with Barbarism, and with Mohammedanism; the Development of the Hierarchy; the Rivalries of the Patriarchates; the Upbuilding of the Papacy and the Growth of Monachism; the Relations of the Popes to the Byzantine, Frankish, and German Emperors; the Crusades; the Growth and Decay of Papal Power; the Monastic Schools; the Universities; the Mendicants and Mediæval Heretics; Scholasticism and Superstition; the Church and Mediæval Society; History of the Reformation and of the Modern Church.

Open to those who have had a course in General History, and have sixty semester-hours to their credit.

This course is given in Garrett Biblical Institute.

PRIMARILY FOR GRADUATE STUDENTS.

K—*The Fall of Rome and the Rise of the New Nations.* 2 hours.

Hours to be arranged.

Assistant Professor WILDE.

A study of the last years of the Roman Empire, the causes of its fall, contacts of Romans and Germans, invasions of the Germans, foundation of the Germanic states on the soil of the empire, early developments in the Frankish kingdom.

Some facility in reading Latin, French, and German is required for this course.

M—*Seminary in American History.* 2 hours.

Hours to be arranged.

Professor JAMES.

Open only to those whom the Professor in charge considers qualified. One meeting of two hours each week; but each student must give sufficient time in preparation to entitle him to three hours of credit. Additional credits may be acquired if arranged for at the time of registration. During the year 1902-1903, the work consisted of a study of the evolution of the Constitution of the United States; Colonial records, charters, and other original sources were used as the basis for the study.

In 1903-1904, the subject for consideration will be the Diplomatic History of the United States during the administrations of Washington and Adams. Material secured from the French archives will form a basis for the work.

Major: AB or A or BC and seven additional year-hours.
Minor: AB or A or BC and three additional year-hours.

Those making a major in History are recommended to make a minor in Economics.

History Club. Meetings are held monthly.

Papers are given by the instructors and by advanced students. Reviews of new books and other historical literature are presented. During the year 1902–1903 special lectures were given by:

Professor James Harvey Robinson, Ph. D., of Columbia University, "Petrarch, the First Modern Scholar."

Mrs. William H. Whitehead, "John Fiske."

Rev. John H. Boyd, D. D., "Reconstruction Days."

LATIN LANGUAGE AND LITERATURE.

A—*Livy, Cicero, Terence.* 4 hours.

Mondays, Tuesdays, Thursdays, Fridays.
Three sections at 9, 10, 2.

Assistant Professor LONG.

First Semester.—Livy, two books, with an additional historical selection.

Second Semester.—Cicero de Senectute; Terence, Adelphoe and Phormio.

Latin composition throughout the year; grammatical reviews.

B—First Semester.—*Horace, Odes and Satires.*

Second Semester.—*Tacitus, Agricola and Germania.*

3 hours.

Mondays, Wednesdays, Fridays.
Two sections, at 9 and 11.

Professor BONBRIGHT.

With Course B, it is strongly advised that Greek and Roman History be included as an elective. See History, Course D, page 101.

C—First Semester.—*Pliny's Letters; Quintilian.*

Second Semester.—*Horace, Epistles, including the Art of Poetry.* 3 hours.

Mondays, Thursdays, Fridays, 10.

Professor BONBRIGHT.

Omitted 1903–1904.

D—First Semester.—*Tacitus, Annals—Reign of Tiberius, with comparison of authorities, early and modern.*

Second Semester.—*Lyric and Elegiac Poetry, Catullus, Tibullus, and Propertius. Lectures on the origin and development of the Latin Elegy.*

Tuesdays, Thursdays, Fridays, 10.

Professor BONBRIGHT.

E—First Semester.—*Lucretius, three books, interpretation with lectures.*

Second Semester.—*Cicero, philosophical selections.*

2 hours.

Tuesdays, Thursdays, 11.

Professor BONBRIGHT.

F—*Latin Comedy and Satire.* First Semester.—*History of the Roman drama, lectures; Plautus, two or three plays.*

Second Semester.—*Satiric Poetry and Epigram—Juvenal; Martial.*

2 hours.

Tuesdays, Thursdays, 11.

Professor BONBRIGHT.

Omitted in 1903–1904.

G—*Latin Literature.* First Semester. — *Historical Survey, interpretation of selections from representative writers.*

1–2 hours.

Professor BONBRIGHT.

Time to be announced.

H—*Vergil.* 2 hours.

Hours to be arranged.

Assistant Professor LONG.

First Semester.—Bucolics and Georgics; lectures will be given introductory to the general study of Vergil and the Roman Epic.

Second Semester.—Æneid entire; preparation of papers on assigned topics with lectures.

Omitted 1902–1903.

J—*Latin Composition.* 1 hour.

Fridays, 3.

Assistant Professor LONG.

This course presupposes Course A, or its equivalent, and will involve more advanced study of Syntax throughout the year.

K—*Cicero, Orations; Advanced Latin Composition.* 2 hours.

Tuesdays, Thursdays, 3.

Assistant Professor LONG.

First Semester.—Selections from the early orations of Cicero; study of rhetorical method and development of style, together with readings from the rhetorical works.

Second Semester.—Practice in writing Latin, based in part on standard prose selections. Problems of syntax are discussed and special attention given to the study of Latin prose style.

Omitted in 1903–1904.

L—*Cicero, Letters.* 2 hours.

Tuesdays, Thursdays, 3.

Assistant Professor LONG.

The study of the diction and style of Cicero and his correspondents is continued throughout the year, with a survey of Roman Epistolography.

Omitted 1903–1904.

Major work: Course B, with Course C or D, and E or F, or an approved equivalent.

MATHEMATICS.

A—*Algebra and Plane Trigonometry.* 4 hours.

Mondays, Tuesdays, Wednesdays, Thursdays.
Six sections at 8, 9, 11, 11, 2, 3.

Dr. KEPPEL and Mr. WILSON.

First Semester.—Algebra, including the theory of quadratic equations, ratio and proportion, progressions, permutations and combinations, binomial theorem, logarithms and their application to interest and annuities, with an introduction to the general theory of equations and determinants.

Second Semester.—Plane Trigonometry, including the solution of oblique triangles.

Required of all candidates for a degree, except those who elect Course AB.

AB—*Algebra, Trigonometry, and Analytical Geometry.* 5 hours.

Mondays, Tuesdays, Wednesdays, Thursdays, Fridays, at 10.

Dr. KEPPEL.

First Semester.—Algebra and Plane Trigonometry; a briefer course than is given in Course A.

Second Semester.—Plane Analytical Geometry. An elementary course on the straight line and conic sections.

Course AB may be taken by any student who has met the entrance requirements in Algebra.

AA—*Advanced Algebra.* 2 hours.

Tuesdays, Thursdays, 9.

Mr. WILSON.

Second Semester.—A continuation of the work in Algebra of Courses A and AB, covering the elements of the theory of equations, determinants, and irrational numbers.

Open to students who have completed the first semester of either Course A or Course AB, and recommended to all who expect to teach mathematics in secondary schools.

B—*Plane Analytical Geometry and Calculus.* 3 hours.

Mondays, Wednesdays, Fridays, 8.

Dr. KEPPEL.

First Semester.—Plane Analytical Geometry; an elementary course on the straight line and conic sections.

Second Semester.—Differential and Integral Calculus; a brief course in formal differentiation and integration of the common functions, with applications to maxima and minima, indeterminate expressions, lengths and areas of plane curves, and volumes of solids.

Open to students who have completed Course A or its equivalent.

BB—*Differential and Integral Calculus.* 3 hours.

Mondays, Wednesdays, Fridays, 9.

Professor WHITE.

First Semester.—Theory of limits, differentiation of common functions, maxima and minima.

Second Semester.—Indefinite and definite integrals, change of variable, areas and volumes, average values of functions.

Open to students who have completed Course AB or its equivalent.

C—*Elementary Mechanics.* 3 hours.

Mondays, Wednesdays, Fridays, 9.

Professor HOLGATE.

First Semester.—Statics. Composition and resolution of forces, moments of force, general conditions of equilibrium, friction.

Second Semester.—Dynamics. Velocities and accelerations, simple harmonic motion, work, energy.

Open to students who have completed Course A or its equivalent.

D—*Theory of Equations and Determinants.* 2 hours.

Tuesdays, Thursdays, 9.

Professor WHITE.

First Semester.—The graph of an equation, multiple roots, symmetric functions of the roots, transformations, determinants.

Second Semester.—Solution of cubic, quartic, and cyclotomic equations; existence of a root of the general equation; insolubility of the general quintic.

E—*Solid Analytical Geometry.* 3 hours.

Mondays, Wednesdays, Fridays, 10.

Professor WHITE.

Second Semester.—An introductory course in Analytical Geometry of Three Dimensions. May be taken in the second semester as a continuation of Course B, or may be elected by students who have completed Course AB or its equivalent.

F—*Geometrical Applications of the Calculus.* 3 hours.

Mondays, Wednesdays, Fridays, 2.

Professor WHITE.

Infinitesimal Analysis applied to plane curves, twisted curves, and surfaces. Developables, evolutes, geodesic lines, curvature, congruences of lines, contact of curves and surfaces.

G—*Analytical Geometry.* 3 hours.

Mondays, Wednesdays, Fridays, 8.

Professor WHITE.

Open to students who have taken a previous course in Analytical Geometry. The first semester is devoted to a detailed study of the conic sections. The work of the second semester comprises systems of conics, envelopes, the principle of duality, projection, etc.

H—*Modern Synthetic Geometry.* 3 hours.

Mondays, Wednesdays, Fridays, 10.

Professor HOLGATE.

Introduction of infinitely distant elements into geometry; central projection; perspectivity and projectivity; generation of conics from projective forms; properties of ruled quadric surfaces; involution; poles and polars; systems of conics.

Elective for students who have completed one year from Courses B, C, or BB.

J—*Definite Integrals and Differential Equations.* 3 hours.

Mondays, Wednesdays, Fridays, 11.

Professor WHITE.

First Semester.—Integral Calculus: Definite Integrals, with applications to surfaces, volumes, averages, and center of mass.

Second Semester.—Differential Equations, together with chapters on cycloids and other roulettes.

K—*Analytical Mechanics.* 2 hours.

Tuesdays, Thursdays, 8.

Professor HOLGATE.

A course in Theoretical Mechanics, open to students who have taken Course B or its equivalent. It includes a study of vectors, uniformly accelerated motions, simple harmonic motions and their composition, elliptic motion, central orbits, force, energy, work, etc.

L—*Surveying: theory and practice.* 2 hours.

Tuesdays, Thursdays, 8.

Dr. KEPPEL.

The use and adjustments of the compass, engineer's transit, and Y level; the keeping of records and platting of observations; calculation of heights, distances, and areas; elements

of the theory of errors. Field work with the instruments will be carried on in small divisions in the fall and spring.

M—*Primarily for Graduates.* 3 hours.

Wednesday and Friday evenings.

Professor WHITE.

First Semester.—Theory of Functions of a complex variable.
Second Semester.—Elliptic Functions.

N—*Primarily for Graduates.* 2 hours.

Hours to be arranged.

Professor HOLGATE.

First Semester.—The synthetic treatment of systems of conic sections.

Second Semester.—The Newtonian Potential.

Major: Fourteen year-hours including A or AB, and B or BB.
Minor: A or AB, and B, BB, or C.

MINERALOGY AND ECONOMIC GEOLOGY.

A—*Mineralogy; Blowpipe Analysis.* 3 hours.

Lecture, Wednesdays, 11. Laboratory hours can be arranged between 8 and 12 Mondays, Tuesdays, Wednesdays, Thursdays and Fridays.

Professor CROOK.

First Semester.—Mineralogy; elements of crystallography; descriptive mineralogy, including physical properties, chemical composition, occurrence, and association of minerals; determination of minerals by physical characteristics. About one hundred and fifty minerals are studied to learn methods of determination and investigation, and to gain information fundamental for geologists, miners, chemists, and physicists, as well as that desirable for a general education. Dana's "Text-Book of Mineralogy."

Second Semester.—Blowpipe analysis; wet and dry methods of investigation to confirm physical determinations. Landauer's "Blowpipe Analysis."

C—*Economic Geology.* 3 hours.

Lectures, Mondays, Wednesdays, Fridays, 4.

Professor CROOK.

First Semester.—A study of soils, fertilizers, abrasives and lubricants, refractory and fictile materials, building stone, coal, mineral oil and natural gas—substances embraced under the designation of non-metallic mineral resources.

Second Semester.—Metallic mineral products—gold, silver, platinum, copper, iron, lead, zinc, mercury, and some metals of minor importance—studied in regard to their origin, geological relations, geographical distribution and use.

Tarr's "Economic Geology of the United States."

D—*Physical Crystallography.* 2 hours.

Hours to be arranged.

Professor CROOK.

Optical, thermal, magnetic, and molecular properties of crystals. Wooden and glass models, reflecting goniometer and microscope used.

Williams' "Elements of Crystallography" and Groth's "Physikalische Krystallographie."

E—*Assaying.* 2 hours.

Wednesdays, 2–6.

Professor CROOK.

First Semester.—Scorification, cupellation, parting, and weighing of gold and silver.

Second Semester.—Crucible process of precious metals, and assaying of copper, lead, and zinc.

Open to those students who have completed Chemistry A and Mineralogy A.

F—*Advanced Course.* 2 to 5 hours.

Hours to be arranged.

Professor CROOK.

A continuation of the work begun in any one of the courses in general mineralogy, blowpipe analysis, optical mineralogy, or economic geology, for the purpose of preparing the student to enter upon work of special investigation.

G—*Research Course.* 5 to 15 hours.

Hours to be arranged.

Professor CROOK.

For graduate students who have completed the requirements

for major work in the department. Special investigation of the physical and chemical properties of some mineral or group of minerals, or particular study of a region of importance from the point of view of economic geology. A full knowledge of the literature of the subject is involved and ability to use French and German is necessary.

Major: A and seven additional year-hours, which may include Geology A.

Minor: A and three additional year-hours.

MORAL AND SOCIAL PHILOSOPHY.

A—*Ethics. Social Philosophy.* 3 hours.

Mondays, Wednesdays, Fridays, 9.

Professor CALDWELL.

First Semester.—Ethics; analysis of the facts of conduct and of the moral development of humanity; the scientific explanation of conduct; the different views regarding the moral standard; the history of ethics with more special reference to modern times; the ethics of evolution and the ethics of idealism; the ethical movement of to-day; moral progress.

A chief feature of this course is class-room discussion, based upon the Lectures, upon the text-book, and upon the problems and difficulties of the members of the class.

Second Semester.—Social Philosophy. The problem of social philosophy and the principles of sociology, the nature of the social problem and of social science; the conclusions of anthropology and of the other sciences on which sociology rests; the theory of sociology by reference to the work of the leading social philosophers. Practical application of sociological principles to the chief social problems.

This course attempts to outline that application of science and philosophy to society and social problems which is such a characteristic tendency of to-day. And also to point out the main lines along which social advance may best be made.

Lectures, use of some serviceable manual, readings, reports, practical investigations.

There will be scope for discussion as in the first semester.

Open to students who have completed thirty semester-hours.

B—*Practical Problems.* 2–3 hours.

Tuesdays, Thursdays, 3.

Credit will be given for time spent in investigation.

Professor CALDWELL.

Brief class-room study of some introductory, practical book. Investigation by students (under direction) of social conditions, problems, agencies, institutions. Intended to start students in the work of social observation and reflection.

Second Semester.—Moral pathology and the science of character; class-room study and discussion of such books as Giles' "Moral Pathology," or Sidgwick's "Practical Ethics," MacCunn's "Making of Character." Reports and investigations of students upon topics.

Open to students who have completed thirty semester-hours.

C—*Social Psychology.* 2–3 hours.

Tuesdays, Thursdays, 11.

Professor CALDWELL.

Consideration of the attempts of recent American and European philosophers and psychologists to approach the study of society from the psychological (as distinct from the hitherto prevailingly biological) point of view.

The logic and mind of society; the psychology of social action; the psychical factors in civilization; the relation of the social mind to the mind of the individual; the application of social psychology to education and reform.

Study of Professor Baldwin's "Social and Ethical Interpretations of Mental Development," and of Ross's "Social Control," with reference to the writings of others, such as Le Bon, Sidis, Ward, Bosanquet, Tarde, etc.

Second Semester.—Continuation of the work of the first semester.

Open to students who have had or are taking Course A, or who have had or are taking Course A in Psychology.

D—*Advanced Course.* 2 hours.

Hours to be arranged.

Professor CALDWELL.

First Semester.—Ethics. Reading and analysis of advanced works upon ethics, such as the writings of Plato, Aristotle,

Kant, Hegel, Wundt, Gizycki, Paulsen, Sidgwick, Green, Spencer, Stephen, Martineau, and others.

Lecture and study notes upon special topics such as the Metaphysic of Ethics, the Logic (methods) or Psychology of Ethics, the Art of Conduct, the Moral Ideal, Social or Political or Religious Ethics, etc. Or, study of special periods in the history of Ethical growth, or of Ethical speculation, such as the Ethics of the Greeks, or of German philosophers, etc.

Paulsen's "Ethics" may be used as a guide.

Second Semester.—Social Philosophy. Social theories of leading thinkers, ancient and modern. Tendencies in contemporary social philosophy ("English" and Foreign). The philosophy of social advance and of social reform.

Open to students who have completed Course A.

E—*Seminary.* 3 hours.

Wednesdays, 3.

Professor CALDWELL.

Research study of topics connected with any of the above courses. Subjects can be announced only after consultation with those fitted for the work of investigators.

Time for meeting to be arranged. Credit for undergraduates, three hours. For graduates as may be arranged.

RELATED COURSES IN OTHER DEPARTMENTS.

Philosophy A.	Latin, Cicero's Philosophical Works.
Political Economy A.	Greek, Plato.
History F, G.	Zoölogy A.

Major: A and seven additional year-hours, which may include one semester of Philosophy A (Psychology), or Political Economy A.

Minor: A and three additional year-hours.

MUSIC.

A—*Harmony.* 2 hours.

Mondays, Wednesdays, 3.

Professor LUTKIN.

First Semester.—Intervals, Triads, Triad Harmonization with near Modulations, Inversions, Ear-training.

Second Semester.—Harmonization with addition of Dominant and Diminished Sept-chords, Modulations, Cadence Formulas, Dictation, Chord Sequences at piano.

B—*Harmony.* 2 hours.

Mondays, Thursdays, 11.

Professor LUTKIN.

First Semester. — Collateral Sept-chords, Suspensions. Altered and Extended Chords, Tones foreign to the Harmony, Organ Point, Remote Modulations.

C—*Musical Form.* 2 hours.

Mondays, Thursdays, 11.

Professor LUTKIN.

Second Semester.—Composition of Melodies, Anglican Chants and Hymn Tunes; Song, Trio and Rondo Forms; Variations, Inventions and Suites, Sonata, Canon and Fugue.

D—*Counterpoint.* 2 hours.

Tuesdays, Fridays, 11.

Professor LUTKIN.

First Semester.—Two and Three Part Counterpoint.

Second Semester.—Three and Four Part Counterpoint, Canon, Two-part Fugues.

E—*Counterpoint.* 1 hour.

Mondays, 2.

Professor LUTKIN.

First Semester.—Counterpoint in five and more parts.

Second Semester.—Double and Triple Counterpoint, Imitation, Figured Chorals.

F—*Canon and Fugue.* 1 hour.

Hour to be arranged.

Professor LUTKIN.

Canons in the various intervals, by Inversion, Diminution, Augmentation, Retrogression, etc. Tonal and Real Fugues in two to five parts, Double Fugues.

G—*Musical History.* 2 hours.

Tuesdays, Thursdays, 3.

Professor SAIDEE KNOWLAND COE.

First Semester.—Primitive Music, Music of China, Japan,

Africa, India and the American Indians, with illustrations; the Greek music system, early ecclesiastical styles, Polyphonic music of the Middle Ages, history of notation, analysis of the instruments of the orchestra, biographies of noted musicians.

Text-book work supplemented by lectures.

Second Semester.—Development of the Oratorio, Illustrations from Cavaliere, Mazzochi, Carissimi, Scarlatti, Stradella; Critical analysis from Scores of Handel's "Messiah."

Development of the Opera, the Camerata, Caccini, Lully, Purcell, Comparison of Opera of Italy, France and Germany.

Critical analyses from the scores of Wagner's Music Dramas, including the "Rheingold," "Walkyrie," "Siegfried," "Götterdämmerung," "Meistersinger" and "Parsifal."

H—*Sight-reading and Choral Practice.*

Mondays, Thursdays, 4:15 (half-hour periods, no credit).

Mr. Cozine.

I—*Analysis.*

Wednesdays, 11. (No credit.)

First Semester.—Bach's Inventions, Song Forms (principally Mendelssohn and Chopin).

Second Semester.—Fugues (Bach's Well-tempered Clavichord), Sonatas (Mozart, Haydn, Beethoven).

K—*Advanced Harmony.* 1 hour.

Thursdays, 2.

Professor Lutkin.

Modern Harmony, Chromatic Alterations, Irregular Resolutions and Free Use of Dissonances.

L—*Advanced Analysis.* 1 hour.

Thursdays, 3.

Professor Lutkin.

First Semester.—Sonatas and Fugues.
Second Semester.—Symphonies.

M—*Free Composition.* 1 hour.

Hour to be arranged.

Professor Lutkin.

First Semester.—Homophonic Forms.
Second Semester.—Sonata Forms.

N—*Instrumentation.* 1 hour.

Hour to be arranged.

Professor LUTKIN.

O—*Voice Culture in Classes.*

Hour to be arranged. (No credit.)

Mr. COZINE.

NOTE.—Course H (Sight-reading and Choral Practice) is open to University students upon payment of a semester fee of three dollars, and Course O (Voice Culture in Classes) upon payment of a semester fee of ten dollars.

SCHOOL OF MUSIC.

The attention of students is called to the Evanston Musical Club, the St. Cecilia Choir of women's voices, the School of Music Maennerchor, and the chapel choir, as offering excellent opportunities for drill and improvement in vocal music. Also to the School of Music Orchestra and the University Band as offering similar advantages to those playing instruments. Frequent concerts, recitals, and lectures are given at Music Hall in connection with the regular courses in the School of Music, to which University students are granted free admission. The Circular of Information of the School of Music gives full particulars in regard to that Department.

NORWEGIAN-DANISH.

A—*Modern Norwegian-Danish Grammar.* 2 hours.

Hours to be arranged.

Dr. SIMONSEN.

First Semester.—Petersen's Norwegian Grammar and E. C. Otte's "How to Learn Danish" are the text-books used.
Second Semester.—Readings from Andersen and Ibsen.
This course is given in the Norwegian Theological School.

PEDAGOGICS.

A—*History of Education.* 1–3 hours.

Mondays, Wednesdays, Fridays, 4.

Professor FISK.

Lectures, readings, and discussions. Text-books: Compayré's History of Pedagogy, Quick's Essays on Educational

Reformers, Munroe's The Educational Ideal, Boone's Education in the United States.

Given in 1902–1903 and in alternate years.

NOTE.—This course may be taken as a three-hour course, or as a two-hour course (Mondays and Wednesdays), or as a one-hour course (Fridays).

B—*Principles of Education.* 1–3 hours.

Mondays, Wednesdays, Fridays, 4.

Professor FISK.

Lectures, readings, and discussions. Text-books: Compayré's Lectures on Pedagogy, Payne's Contributions to the Science of Education, Eliot's Educational Reform, Tompkins's Philosophy of School Management, Lange's Apperception.

Given in 1903–1904 and in alternate years.

NOTE.—This course may be taken as a three-hour course, or as a two-hour course (Mondays and Wednesdays), or as a one-hour course (Fridays).

C—*The Great Educators.* 2 hours.

Tuesdays, Thursdays, 10.

Assistant Professor SCOTT.

Lectures, readings, and discussions.

First Semester.—English Educators: Locke, Spencer.

Second Semester.—Continental Educators: Comenius, Herbart.

D—*The Great Educators.* 2 hours.

Tuesdays, Thursdays, 10.

Assistant Professor SCOTT.

First Semester.—Continental Educators: Rousseau, Pestalozzi, Froebel.

Second Semester.—The More Recent Educators.

In Courses C and D the best works of some of the most influential educators are read by each member of the class. The material thus read furnishes the basis for lectures, papers, discussions and recitations.

Not to be given in 1903–1904.

E—*Seminary.* 2 hours.

Fridays, 5.

Professor FISK and Assistant Professor SCOTT.

Open to a limited number of advanced students. Students

taking this course teach elementary classes in the Academy four or five hours a week under the instructor in charge of the course.

Weekly conferences are held for reports and discussions.

For Pedagogical Psychology see Philosophy I.

Major: Ten year-hours, including A or B, and C or D, Philosophy A, and two additional year-hours in Pedagogy or Psychology.

PHILOSOPHY, PSYCHOLOGY, AND LOGIC.

NOTE.—The alphabetical arrangement of the courses exists for convenience of reference,—not to indicate the order in which they should be chosen. It is generally best to elect A, or A and B conjointly, before the other courses, but either C or D or H may be taken in the same year as A.

A—*General Psychology; Logic.* 3 hours.

Mondays, Wednesdays, Fridays, 2.

Professor COE and Assistant Professor SCOTT.

First Semester.—Psychology. James's Psychology (Briefer Course); class-room demonstrations and guidance to private observation; demonstration of apparatus and methods of experimental psychology; written exercises from members of the class; optional work in the laboratory; lectures on various topics.

Second Semester.—Logic. An outline of both deductive and inductive logic. Special stress is laid upon the methods of the sciences. Written exercises in the detection of fallacies and the criticism of arguments. Creighton's Introductory Logic.

B—*Elementary Experimental Psychology.* 2 hours.

Mondays, Wednesdays, 3–5.

(Subject to revision.)

Assistant Professor SCOTT.

Laboratory work in connection with Course A. Intended for students of general psychology who desire to become acquainted with laboratory methods, and for those who expect to pursue advanced laboratory courses. Two consecutive hours of laboratory work for one hour of credit.

C—*History of Philosophy.* 2 hours.

Tuesdays, Thursdays, 8.

Professor COE.

Text-book, lectures, dissertations, the reading of selected writings of Descartes, Spinoza, Leibnitz, Locke, Berkeley, Hume, and Kant.

Open to students who have completed thirty hours.

D—*General Introduction to Philosophy; Popular Discussions in Philosophy.* 2 hours.

Mondays, Wednesdays, 3.

Professor Coe.

First Semester.—General Introduction to Philosophy. Lectures, papers, and discussions. Intended for all who desire to learn about the nature of philosophy, its divisions, and the characteristic attempts to solve its problems.

Second Semester.—Popular discussions in philosophy. Lectures, papers, and discussions, all bearing upon the relation of philosophy to the life of our day, particularly to its science, its literature, and its social and religious aspirations.

Open to students who have completed thirty hours.

Given in 1902–1903. Not to be given in 1903–1904.

E—*Philosophy of Religion.* 1 hour.

Mondays, 4.

Professor Coe.

Lectures and assigned reading. No preceding study of philosophy is required for admission to this course, but each of the courses designated A, C, D, and J furnishes helpful preparation. Credit is not given until the work of both semesters is completed.

F—*Seminary in the Psychology and Philosophy of Religion.* 2 hours.

Tuesdays, 2–4.

Professor Coe.

Reading of the chief literature on the psychology of religion; collection and analysis of new data; a study of the principles of religious pedagogy; psychological prolegomena to the philosophy of religion. An introduction to research in the psychology of religion.

Primarily for graduates, but open to properly prepared undergraduates.

G—*Advanced Experimental Psychology.* 2 hours.

Hours (in the afternoon only) to be arranged.

Assistant Professor SCOTT.

This course extends the work begun in Course B into some of the more difficult problems, and introduces a limited amount of research. Two consecutive hours of laboratory work will be required for one hour's credit.

Open to students who have completed Course B.

H—*Pedagogical Psychology.* 2 hours.

Tuesdays, Thursdays, 2.

Assistant Professor SCOTT.

Open to students who have taken or are taking General Psychology.

J—*The Philosophy of Nature.* 2 hours.

Professor COE.

An analysis of the chief notions of the natural and physical sciences (such as law, matter, energy, life, mind), with especial reference to the theory of evolution and man's place in nature. Lectures, papers, discussions.

Open to students who have completed either A, C, or D.

Not given in 1902–1903. To be given in 1903–1904.

K—*Advanced History of Philosophy.* 2 hours.

Hours to be arranged.

Professor COE.

Rapid reading of important philosophical literature. The period or group of writers to be studied will be chosen from year to year according to circumstances. In addition to the reading required of the whole class, each member will make a critical study of some problem or piece of literature, and present the results in the form of a thesis.

For graduates, and undergraduates who have completed Courses A and C.

Major: A and C and five additional year-hours, which may include Ethics (Moral and Social Philosophy A), one year-hour.

Minor: A and three additional year-hours.

Students who select Philosophy as their major subject will do well to take Course A in their second year.

RELATED COURSES IN OTHER DEPARTMENTS.

The department of Moral and Social Philosophy gives courses in Ethics and Social Philosophy; the department of Greek, courses in Plato's *Gorgias* and *Republic*; the department of Latin, a course in *Lucretius*; the department of Zoölogy, a course on the Central Nervous System and its Terminal Organs; the department of Pedagogy, courses on the Great Educators, including Locke, Herbart, Spencer, etc.

PHYSICS.

A—*General Physics.* 4 hours.

Lectures on Mondays, Wednesdays, Fridays, 11.
See below for Laboratory hours.

Dr. TATNALL.

First Semester.—General properties of Matter, Sound, Heat.
Second Semester.—Electricity, Magnetism, Light.

Each week's work consists of two experimental lectures. one recitation, and one laboratory exercise. Ames's Theory of Physics is used as a text-book. The laboratory work is guided by a set of instructions prepared and printed especially for this laboratory.

This course is intended for beginners. It requires no mathematics beyond that necessary for entrance to college. It is recommended as a first-year or second-year study to those contemplating the pursuit of any pure science, of engineering, or of medicine.

B—*Experimental Physics.* 4 hours.

Lectures, Tuesdays, Thursdays, 11.
See below for Laboratory hours.

Professor CREW and Dr. TATNALL.

First Semester.—Mechanics. An experimental study of Forces, Moments of Force, Moments of Inertia, Elasticity, etc., forming an introduction to advanced Physics. Worthington's Dynamics of Rotation represents the ground covered.

This is a course in pure Dynamics, and serves as an introduction to Applied Mechanics.

At the end of the first semester, students have the option either of continuing this Course B or of taking up the subject of Applied Mechanics in Course H.

Second Semester.—Light. An experimental study of the

general phenomena of Refraction, Diffraction and Polarization. Spectroscopy. Photographic and micrometric study of various spectra, preceded by a special study of the spectrometer. Application of the principles of Diffraction and Interference to the Grating, the Telescope, and other optical instruments.

Each week's work consists of two lectures and two laboratory exercises.

The laboratory work is guided by a set of instructions prepared and printed especially for this laboratory.

For students who have completed Course A, or its equivalent.

C—*Experimental Physics.* 4 hours.

Lectures, Mondays, Fridays, 8.
See below for Laboratory hours.

Professor CREW.

Electricity and Magnetism. Two lectures and two laboratory exercises each week. In the lectures the more general laws of electricity and magnetism are discussed; the practical equations employed in the laboratory are also derived and discussed. J. J. Thomson's Elements of the Mathematical Theory of Electricity and Magnetism is employed as a textbook.

Henderson's Practical Electricity and Magnetism represents the ground covered in the laboratory. This course forms a solid foundation for all work in electrical engineering.

For students who have completed Course A, or its equivalent.

D—*Thermodynamics.* 2 hours.

(Primarily for Graduates).
Mondays, Fridays, 9.

Professor CREW and Associate Professor BASQUIN.

The first semester is devoted to the general theory of thermodynamics as set forth in Buckingham's Theory of Thermodynamics. In the second semester the application of thermodynamics to the steam engine is considered. The treatment of Ewing in his Steam Engines and Other Heat Engines will be followed. Hutton's Mechanical Engineering of Power Plants is covered in outside reading.

In the second semester each student performs a short series

of experiments involving the use of the absorption dynamometer, the indicator diagram, steam calorimeter, etc. This course is intended as an introduction to mathematical physics, physical chemistry, and engineering. An elementary knowledge of the differential calculus is necessary.

F—*Mathematical Theory of Electricity and Magnetism.* 2 hours.

(For Graduates.)
Tuesdays, Thursdays, 8.

Professor CREW.

Webster's Theory of Electricity and Magnetism represents the ground covered. The subject is believed to be essential to all advanced students of pure physics and those contemplating electrical engineering of high grade. It is also recommended to students interested in applied mathematics.

G—*Mechanical Drawing.* 2 hours.

Mondays, Fridays, 2–5.

Associate Professor BASQUIN.

First Semester.—Elementary Mechanical Drawing. A series of problems in projection based upon Reid's Mechanical Drawing. Reinhardt's Lettering is used.

Second Semester.—Elementary Machine design. A series of exercises in tbe representation of machine parts based upon Reid's Mechanical Drawing and Elementary Machine Design. Tracing and blue-printing.

This course furnishes a good working knowledge of Mechanical Drawing as applied to machines, and is equivalent to the first year's work in drawing in engineering schools.

H—*Applied Mechanics.* 4 hours.

Tuesdays, Wednesdays, Thursdays, Fridays, 10.

Associate Professor BASQUIN.

First Semester.—Hydromechanics. The general principles of Hydrostatics and Hydraulics, with numerous applications, followed by a study of Water Motors. Text-book: Bovey's Hydraulics.

Second Semester.—Strength of Materials and Theory of Structures. A study of the behavior of materials under the action of stresses, with applications in the design of simple structures of engineering. The students will perform a short

series of experiments upon the strength of materials with a Riehle Testing Machine. Text-book: Bovey's Theory of Structures and Strength of Materials.

A knowledge of calculus is required. Students are recommended to take the work in the following order: (1) Physics B, first semester; (2) Physics H, second semester; (3) Physics H, following semester.

K—*Shopwork.* 2 hours.

See below for Laboratory hours.

Associate Professor BASQUIN, Mr. DIKE, and Mr. STARKWEATHER.

WOOD WORK.—A series of exercises in bench work in wood and in wood turning.

Text-books: Goss's Bench Work in Wood, Golden's Wood Turning.

METAL WORK.—A set of regular exercises in work on vise, lathe, drill press, and shaper, with complete blue printed instructions for each exercise and with lectures upon metal-working tools.

L—*Kinematics of Machinery.* 2 hours.

Hours to be arranged.

Associate Professor BASQUIN.

Recitations and Drawings. Durley's Kinematics of Machines.

Major: A and six additional year-hours.
Minor: A and two additional year-hours.

LABORATORY HOURS.

The Physical Laboratory and the Shops will be open each afternoon in the week except on Saturday. Students may select their own afternoons for work; but having once made a selection this must be strictly adhered to throughout the entire semester.

PHYSICAL CULTURE AND HYGIENE.

A—*Physical Culture and Hygiene.* 1 hour.

Tuesdays, 2.

Mr. BUTTERWORTH.

First Semester.—Lectures will be given upon structure and

functions of muscles, nerves, spinal cord, and brain; sources and effects of vital heat and carbonic acid; fatigue; breathlessness; stiffness; overwork; training; effects of exercise upon organs and tissues of the body; gymnastic exercises—German, English, and Swedish systems; apparatus; indoor and outdoor games.

Second Semester.—Lectures will be given upon diet and value of different articles of food; digestion; functions and care of skin, hair, nails, care of teeth and eyes; composition of air and water; ventilation; bacteria; infectious and contagious diseases.

B—*Physical Training.* 1 hour.

Hours to be arranged.

Mr. BUTTERWORTH.

Physical examinations will be given. Regular classes for dumb-bell and Indian-club exercises will be formed. Credit for one semester-hour will be given for three hours a week of gymnasium practice between December 1st and April 1st of the following year.

ROMANCE LANGUAGES AND LITERATURES.

AA—*Elementary French.* 5 hours.

Mondays, Tuesdays, Wednesdays, Thursdays, Fridays.
Four sections at 8, 9, 11, 2.

Miss FREEMAN. Mr. LE DAUM.

DeBordes' Grammar. Whitney's Reader. Labiche's La Grammaire. Mérimée's Colomba. Baillot-Brugnot's Composition. Voyage de M. Perrichon. Le Roi des Montagnes (About). Sicard's Easy French History. Simple dictations, private reading, and composition.

This course may not be taken to remove language requirements for admission.

A—*Modern French.* 4 hours.

Mondays, Tuesdays, Thursdays, Fridays.
Two sections at 10, 11.

Professor BAILLOT. Miss FREEMAN.

Baillot-Brugnot's Compositon. Advanced Grammar. Reading. Sicard's Easy French History. Madam de Girardin's La Joie fait Peur. Eugène Scribe's Les Doigts de Fée. Coppée's

On rend l'Argent. Freeborn's Contes de Daudet. Pailleron's Le Monde où l'on s'Ennuie.

White's Contes de Maupassant. Victor Hugo's Quatre-Vingt Treize. Canfield's French Lyrics. Coppée's Le Pater. Victor Hugo's Hernani. Private reading: Cameron's Selections from Loti. Hennequin's Lessons in Idiomatic French. Essays.

Open to all who have completed AA. Classical and Philosophical students may elect this as a four-hour course, omitting the Composition. Scientific students may, in the second semester, substitute for Lyrics and Drama a special course in scientific reading.

B—*Classic French Literature of the 17th and 18th Centuries.* 3 hours.

Mondays, Wednesdays, Fridays.
Two sections at 8, 9.

Professor BAILLOT.

First Semester.—17th Century. Composition.

Corneille's Le Cid, Polyeucte. Racine's Athalie. Molière's Le Misanthrope, L'Avare.

Collateral reading: Crane's La Société Française au 17e Siècle. Dictations and short lectures on the classic literature.

Second Semester.—18th Century. Lesage's Gil Blas. Voltaire's Zaïre and letters. Beaumarchais' Le Barbier de Séville and letters. A study is also made of the other authors of the eighteenth century. This course is a continuation of the first semester, Course B, and is open only to students having had that course. Exercises on French Syntax.

C—*General Review of French Literature.* 2 hours.

Tuesdays, Thursdays, 1.

Professor BAILLOT.

Demogeot's French Literature and Darmesteter and Hatzfeld's Le Seizième Siècle en France will be used as text-books, and collateral reading is assigned by the instructor. Dictations. Papers on collateral reading.

D—*Recent French Literature.* 2 hours.

Tuesdays, Thursdays, 9.

Professor BAILLOT.

Study of the literature of the Nineteenth Century, taking as a basis George Pellissier's Le Mouvement Littéraire au XIXe

Siècle. Collateral reading. This course is given in French. Open only to students who have had Course B.

E—*Advanced French.* 2 hours.

Wednesdays, 8.

Professor BAILLOT.

The topics considered will be closely related to those of Courses C and D; but students will be expected to carry on special studies with prepared papers. For 1902–1903 the assigned topics have been the poets of the second half of the Nineteenth Century.

F—*Old French and Early French Literature.* 1 hour.

Day and hour to be arranged.

Professor BAILLOT.

Open only to students having had Courses B and C or D.

G—*Scientific French. Second Semester.* 3 hours.

Hours to be arranged.

Miss FREEMAN.

Herdler's Scientific French. Articles from scientific periodicals.

H—*French Conversation with Private Reading.* 1 hour.

Wednesdays, 2 to 4.

Professor BAILLOT.

Advanced Conversation. Conversation with private reading. Open to those who have had AA, but registration to be subject to the approval of the head of the department.

Le Cercle Français meets on alternate Thursdays at 7:30 p. m., and is open to all students having completed Courses AA and A.

J—*French Conversation.* 1 hour.

Tuesdays and Thursdays, 9.

Miss FREEMAN.

Bercy's Le Français Pratique. Open to those who have had or are having Course AA.

M—*Elementary Italian.* 3 hours.

Mondays, Wednesdays, Fridays, 9.

Miss FREEMAN.

Grandgent's Grammar; Bowen's Reader; De Amicis' Cuore. Manzoni's I Promessi Sposi.

Modern Prose Tales. Dante (40 cantos); Private Reading. Collateral reading required: Howell's Italian Poets, Symonds' Introduction to Dante, Church's Dante, Rossetti's Dante and his Circle.

When given.

N—*Elementary Spanish.* 3 hours.

Mondays, Wednesdays, Fridays, 9.

Miss FREEMAN.

General elective, but especially adapted to advanced students in French. The aim of the course will be the acquisition of the power of intelligent reading. It is expected that advanced students will make the same progress as in the elementary year in French.

Edgren's Grammar; Ramsey's Reader; Larra's Partir á Tiempo; Echegaray's Ó Locura Ó Santidad.

Composition; Galdos' Doña Perfecta; Estebanez's Un Drama Nuevo; Caballero's La Familia de Alvareda; Moratin's El sí de las Niñas; Valdes' José.

Lectures on the Historical Development of the Spanish language, and on Modern Authors.

Major: A and B and six additional year-hours.
Minor: A and B.

SWEDISH.

A—*Swedish.* 3 hours.

Hours to be arranged.

Professor ERICSON.

First Semester.—Modern Swedish Grammar and the Reading of Prose Selections.

Text used: May's Swedish Grammar.

Second Semester.—Tegner's Frithjof's Saga and Selections from Kuneberg.

This course is given in the Swedish Theological Seminary.

ZOÖLOGY.

A—*General Biology.* 4 hours.

Lectures, Tuesdays, Thursdays, 9. Laboratory hours to be arranged between 9 and 12 Tuesdays, Wednesdays, Thursdays, Fridays.

Professor LOCY, Dr. HILL, and Mr. SHINN.

A comparative study of living organisms as a whole, forming an introduction to the study of vital activities. In the laboratory the student acquires a knowledge of methods of study, and is taught to observe, to verify and record his observations. A general survey of the properties of living matter is followed by study of a few selected types of invertebrate animals, beginning with the simplest and proceeding to the more complex. Parker's "Elementary Biology" and Marshall and Hurst's "Practical Zoölogy" are used as handbooks, and these are supplemented by lectures. In the lectures the physiological side receives most attention.

During the second semester a large part of the time is devoted to study of the development of animals, using eggs of fishes, amphibia and the chick. This course is open to all students, and is required of those intending to take either Botany or Zoölogy as a major subject. A knowledge of elementary physics and chemistry is very desirable for all students entering this or any of the following courses.

C—*Cytology and Histology.* 3 hours.

Lectures or recitations Mondays, 9. Laboratory hours to be arranged.

Dr. HILL.

First Semester.—Cell-Life and Elementary Histology. Anatomy and physiology of the cell, microscopical structure of the elementary animal tissues, and principles and practice of the general methods of microscopical technique. Wilson's "The Cell in Development and Inheritance" forms the basis of the work on the cell.

Second Semester.—Microscopical Structure of the Animal Organs. Principles and practice of the important special methods of microscopical technique. Continuation of work of first semester. Böhm-Davidoff's "Text-book of Histology" and Piersol's "Normal Histology" will be used as reference books.

D—*Comparative Anatomy and Physiology of Vertebrates.*

4 hours.

Lectures, Wednesdays, Fridays, 9. Laboratory work to be arranged on Tuesdays, Wednesdays, Thursdays, Fridays, 9–12.

Professor LOCY and Assistant.

First Semester.—Comparative Anatomy. Study of Selected Vertebrate Types. The recitations and lectures will be based on Wiedersheim's "Comparative Anatomy of Vertebrates."

Second Semester.—Vertebrate Embryology. Lectures and laboratory work.

E[a]—*The Central Nervous System and its Terminal Organs.*

1 hour.

Lecture, Tuesdays, 4. One hour, or accompanied with three hours' laboratory work, two hours.

Professor LOCY.

First Semester.—The Central Nervous System. Comparative Structure of the Central Nervous System, with discussions on some of its physiological activities.

Lectures and demonstrations, adapted to those taking, or about to take, Psychology, and to others who wish to become acquainted with the structure and general physiology of the nervous system.

Second Semester.—The Structure and Evolution of Sense Organs.

Given in 1902-1903 and in alternate years.

E[b]—*Rise and Development of General Biology and Zoölogy.*

1 hour.

Tuesdays, 4.

Professor LOCY.

Historical lectures in which the rise and development of General Biology and Zoölogy is traced from the renascence of science to the present. Particular attention is given to the beginning, the growth, and modification of fundamental doctrines and principles that have become fruitful in the nineteenth century. Intended primarily for students taking Zoölogy A or other work in the department. The course is

also open to students who have pursued elementary work in General Biology.

Given in 1903–1904 and in alternate years.

F—*Topics of Investigation.*

May be elected as (*a*) five hours or (*b*) ten hours. Hours to be arranged with the instructor.

Professor LOCY.

Open to students who have completed two years' work in Zoölogy. Problems of limited extent are assigned after consultation with the professor in charge, and worked out under his direction with such help as is required. This forms an introduction to the work of original research. The completion of the course involves the consultation of the literature bearing on the problem in hand, and the preparation of a thesis embodying the results of the investigation. A reading familiarity with French and German is essential for entering this course.

G—*Research Work.*

May be elected as (*a*) ten hours or (*b*) fifteen hours. Hours to be arranged with the instructor.

Professor LOCY.

For graduate students who have completed the equivalent of the courses described above. Similar to Course F, but with broader scope and more rigid requirements as to the thesis, which must embody a critical review of the principal literature and substantial conclusions based upon the personal work of the student. Offered to students who are candidates for a graduate degree. Means of publication will be found for all papers which are worthy of it.

Major: A and six additional year-hours.
Minor: A and three additional year-hours.

PROFESSIONAL STUDIES.

The following detailed statements indicate how a student in College may arrange his program to advantage in preparation for a professional career, and how, under some conditions, he may shorten the time necessary to secure degrees in both the College of Liberal Arts and a Professional or Technical School.

College credit for studies pursued in professional schools is in all cases restricted to work done in the schools of this University.

STUDENTS PREPARING FOR MEDICINE.

Students intending to enter the Medical School, and desiring to shorten the time required for degrees in both Arts and Medicine, may be released from further work in the College of Liberal Arts when they have secured ninety semester-hours of credit. This credit must include all the required studies for the degree sought, as shown on pp. 67–68, and must meet the requirements as to major and minor. If the student's work is properly planned this necessary credit can be secured in three years.

Such students, while continuing registration for the fourth year in College may give their full time to work in the Medical School. The certificate from the Medical Faculty that the equivalent of a full year's work has been satisfactorily accomplished will be accepted in the College as completing the one hundred and twenty hours required for the bachelor's degree.

Credit from the Medical School cannot be accepted in subjects for which credit has already been given in the College of Liberal Arts, nor can time spent in the Medical School be counted toward the year of residence in the College of Liberal Arts required of all candidates for the bachelor's degree.

This plan of combined courses makes it possible to secure both degrees in seven years, three in College and four in the Medical School. For all work done in the Medical School the full fee of that school is charged.

On the other hand, there are some courses which, if taken in the College of Liberal Arts, will be credited for the corresponding courses in the Medical School. Thus students who secure credit for Chemistry A and B in College will be given credit for Chemistry a, b, and c, that is, first year Chemistry, in the Medical School. Those who secure credit for Zoölogy A, C, D, and E_a will receive credit

for Histology and Embryology a, b, c, d, and e, in the Medical School. Students who include these courses as electives in the ninety hours of credit referred to above, and enter the Medical School for their fourth year, will have sufficient advance credit in the Medical School to enter the second year, but with some conditions. If the unfinished work of the first year is made up by extra summer work, the two degrees can be secured in six years, but to do this requires careful planning from the first.

Students who intend to follow the six-year plan should formally register in the Medical School at the beginning of their third year in College and for them the following order of elective studies in College is recommended:

First Year.—Zoölogy A.
Second Year.—Chemistry A, Zoölogy D.
Third Year.—Chemistry B, Zoölogy C, Zoölogy E_a.

STUDENTS PREPARING FOR LAW.

Thirty semester-hours of work done in the Law School will be accepted by the College of Liberal Arts to apply toward meeting the requirements for a bachelor's degree. Consequently a student in College who has secured ninety hours of credit, including all the required studies for his degree as described on page , and who has met the requirements as to the major and minor, may transfer to the Law School and complete there the work for the Collegiate bachelor's degree. Such students must however continue their formal registration in college, though doing all their work in the Law School, and they will be required to pay the Law School fees.

The satisfactory completion of the first year of the Law School course, as certified by the Faculty of that School, will be deemed sufficient to make good the remaining thirty hours of the one hundred and twenty hours required for the collegiate degree. Time spent in the Law School cannot be counted toward the year of residence required of all candidates for a Collegiate degree.

STUDENTS CONTEMPLATING THE STUDY OF THEOLOGY.

Students in the College of Liberal Arts, who have completed sixty semester-hours of credit and who wish to shorten the time for securing degrees in Arts and Theology, may elect certain courses in Garrett Biblical Institute to the amount of thirty semester-hours, thereby reducing the time for the combined programs by one year. Work done in Garrett Biblical Institute cannot, however, be applied to meet the requirement of one year of residence for a degree in the College of Liberal Arts.

For convenience the courses open to College students are listed

among those offered in the College of Liberal Arts, and are repeated here as they appear in the Institute catalogue. The names in parentheses are the College designations of the courses.

Hebrew of the Junior and Middle years (Hebrew A and B).
Greek of the Junior year in the degree course (Greek N).
Post-Nicene History (History L).
History of the Reformation (History L).
Comparative Religions (Bible F).
Modern Church and Missions (Bible F).

Since exegesis plays so large a part in a theological course, students contemplating the study of Theology should secure while in college a ready command of the Greek and Hebrew languages. They will also find that a knowledge of German will prove highly serviceable in reading modern theological literature.

FOR STUDENTS CONTEMPLATING THE STUDY OF PHARMACY.

Students who have secured ninety semester-hours of credit at the end of their third year in the College of Liberal Arts, and have included therein all the prescribed courses for their degree, and have met the requirements as to major and minor, may enter the School of Pharmacy, and by satisfactorily completing the first year in that school they may meet the total requirements for the bachelor's degree.

The degree of Master of Pharmacy may then be obtained by completing the second and final year of the Pharmacy program.

The credit to be allowed in the College for work done in the School of Pharmacy may not exceed thirty semester-hours, and it may not include any items for which credit in the College of Liberal Arts has already been secured. Neither can time spent in that school be counted toward the year of residence required of all candidates for a collegiate degree.

Students taking any work in the School of Pharmacy must pay the fees of that school.

FOR STUDENTS CONTEMPLATING ENGINEERING.

A student who intends, after the completion of the College course, to enter the profession of Engineering may register in College as a candidate for any degree, but as a rule will have most elective time at his disposal by following the program for the degree of Bachelor of Science. In meeting the requirements for this degree, as described on page 68, he is advised to take Mathematics AB in the first year; also to take Physics A and Chemistry A as the two required sciences. His elective work and the department in which

he makes a *major* will depend upon the special branch of Engineering for which he is planning.

For instance, if he contemplates Mechanical, Electrical, or Civil Engineering, he should do his *major* work in Physics or in Mathematics, and should include in his program as many of the following courses as possible:

First Year.—Mathematics AB or A.
Chemistry A (General Chemistry).
Second Year.—Mathematics BB or B.
" L (Surveying).
Physics A (Introductory Course).
" G (Mechanical Drawing).
Third Year.—Physics B (Mechanics, Light).
" K (Shop Work).
Mathematics J (Calculus and Differential Equations).
Fourth Year.—Physics C (Electricity and Magnetism).
" D (Thermodynamics).
" H (Applied Mechanics).
" L (Kinematics of Machinery).

If the student contemplates Mining Engineering, he would better make his *major* in Geology or Mineralogy and devote a large part of his elective time to work in those two departments, with auxiliary electives in Chemistry, Mathematics, and Physics.

If he plans for Chemical or Sanitary Engineering he would better make his *major* in Chemistry, taking all courses there offered with others in Botany and Zoölogy.

Where a definite end is sought, the selection of elective studies should be made in close consultation with the student's adviser, and always with the end clearly in view. A proper choice of studies will make it possible for a student to complete a technical course in two years after graduation from College. The Massachusetts Institute of Technology authorizes the statement that a student who has completed, while in College, such a program as is suggested above may expect to be admitted to the third year of the engineering courses in that instition. If, on the other hand, the student prefers after graduation, to enter directly upon practical engineering work, he will find that a program such as outlined, or such as may be arranged with his adviser, will enable him to do so with advantage.

GRADUATE WORK.

In many of the departments of instruction advanced courses are offered, in excess of the amount required for an

undergraduate major, which are adapted to the needs of graduate students. These courses may be pursued either with or without reference to an advanced degree, and are open to properly qualified candidates from this and from other universities. The conditions under which students may register for graduate work are given on page 139, and the regulations affecting advanced degrees may be found on pages 143–146.

The work of graduate students is under the supervision of a standing committee of the Faculty, but a graduate student may pursue any study for which, in the judgment of the instructor in charge, he is prepared.

REGISTRATION.

Undergraduate Registration. Every undergraduate student is required to present himself at the office of the Registrar for the registration of his studies. The following are the rules governing such registration:

1. Registration days are the first Tuesday, Wednesday, and Thursday of each semester, and students not registered at the close of this period are subject to a fee of two dollars for later registration.

2. On the registration days of the first semester the student must register for the work of the whole year. He is expected to continue throughout the year the work then registered for, and may not change it without special permission from the Registration Committee.

3. Before completing their registration, students are required to consult their Faculty advisers as to their college work.

4. No college credit can be obtained for class work not regularly registered.

5. Prescribed studies take precedence in registration over elective studies and in the order in which they are prescribed.

6. Every student must register for fifteen hours of work a week, unless permission has been obtained from the Registration Committee to register for less or more. Permission to register for more is a privilege, and will not be granted unless the committee is satisfied the student can carry the whole work creditably. Two hours of laboratory work are credited as one hour.

7. All undergraduates must state upon their registration papers the full amount of work which they propose to undertake each

semester, whether in the College of Liberal Arts or elsewhere, indicating the number of hours to be devoted to each subject, and the school or department in which it is proposed to do such work.

8. All students of the College of Liberal Arts desiring to take work in any other department of the University must first obtain formal consent from the Faculty of the College of Liberal Arts and also from the Faculty of the department concerned, and must file such consent with the Registrar prior to undertaking the work. Failure to comply with this regulation will be deemed sufficient cause for the cancellation of the students' entire registration.

9. No student will be registered as a candidate for a degree who has deficiencies in entrance work amounting to more than five hours a week through one year; and no student will be credited with college work in the published lists of the catalogue until these deficiencies are made up.

10. On the registration days of each semester all students must obtain from the Registrar vouchers for their tuition bills, which must be presented at once at the Business Office of the University.

Graduate Registration. Every graduate student, resident or non-resident, proposing to pursue advanced work, whether he intends to become a candidate for a degree or not, is required to register for this work at the office of the Registrar. The following are the rules governing such registration:

1. The registration of resident candidates for the Master's degree must be effected not later than the first Monday in October next preceding the date of the final examination. In the case of non-resident candidates it must be effected one year earlier.

2. A student desiring to become a candidate for the Master's degree, while enrolled in one of the professional schools of this University, must also register in the College of Liberal Arts, and is regarded, for this purpose, as a resident candidate.

3. A student who desires to become a candidate for the Master's degree after graduation from one of the professional schools of this University, must register for the same as early as the first Monday in October next following the completion of the professional course.

4. The registration of a candidate for the Doctor's degree must be effected not later than the first Monday in October.

5. A candidate for an advanced degree, prior to his registration, must make written application to the Registrar for enrollment,

and furnish to him all data required for due record of his application, together with a statement of the courses of study he proposes to pursue.

6. The above application and statement of courses must be approved by the Committee on Graduate Studies and the heads of departments under whom the work is to be taken, and such approval must be filed with the Registrar as a condition preliminary to registration.

7. Graduates of this, or any other college, who are not candidates for an advanced degree, may, with the consent of the departments concerned, register as resident students in such advanced studies as they are found prepared to pursue.

ABSENCES.

When, in any semester, the absences of a student in a single subject exceed one-eighth of the total number of assigned exercises in that subject, he will be required to take, at the close of the semester, besides the regular examination, an *additional* examination in that subject. The dates fixed for additional examinations are the last Thursday of the first semester and the last Friday of the second semester.

Students absent from a required *additional* examination are held to take that examination at the next date set, and no credit can be given until the examination is passed.

When a student's absences in any study amount to one-sixth of the total requirement in that study, his registration in that subject is canceled, and the privilege of examination is denied. This rule is administered by the Committee on Registration which has power to restore the canceled registration at its discretion.

EXAMINATIONS.

At the close of each semester, *regular* examinations are held in the studies of that semester. Any student may be excluded from examination whose daily work has not been satisfactorily done.

A *second* examination is set for students who have been absent from a regular examination, or who have failed to

receive a passing grade on a semester's work in any study. Such examinations are held on the first Wednesday in the first semester, on the first Monday and on the Monday following Easter in the second semester.

No student may take more than one *second examination* for the same item of credit.

Students not present at the regular examinations of the first semester will not be admitted to the second examinations, held in February, except by permission of the instructor in charge, and such permission will be limited to cases of illness or other urgent necessity.

Additional examinations, to make up work which has been lost by excess of absences from class-work, are appointed for the last Thursday of the first semester and the last Friday of the second semester.

Incomplete work, not made good before the close of the next succeeding semester, is recorded as *failed.*

A student reported as *failed* in any study must make good the deficiency at a *second* examination within nine months, or take the work again with the succeeding class in order to obtain credit for it.

Undergraduates are not allowed credit for work done *in absentia.* Only those who have duly registered and have regularly pursued their studies in classes are admitted to examinations.

GRADES OF SCHOLARSHIP.

At the end of each semester the standing of a student in each of his courses is reported by the instructor to the Registrar and entered of record. The student's standing is expressed, according to his proficiency, by one of five grades, designated A, B, C, F, R. Grade A denotes excellent scholarship; grade B, good scholarship; grade C, poor scholarship; grade F, failure, making necessary a *second* examination; grade R, failure so serious that the work must be taken over in class. Grades A, B, and C count toward a degree; but not more than one-eighth of the work offered to meet the requirements for graduation may be of grade C.

One semester's work marked C, in excess of the one-eighth allowed, may be counted toward graduation for each subsequent semester's work in the same department, which is of higher grade. Work marked C, not released by subsequent higher work in the same department, may be released by examination under the same regulations as apply to work marked grade F; the original marking, however, will remain in the record.

The semester record of each undergraduate is sent by the Registrar to the student's father or guardian.

CLASSIFICATION.

For the purpose of listing in the catalogue, the names of undergraduates are placed alphabetically in two groups under the headings:—Candidates for a Bachelor's Degree, and Students not Candidates for a Degree. Opposite the name of each student in the first list are indicated the degree for which he is a candidate and the number of semester-hours of work already accomplished.

DEGREES.

Different programs of study as described on page 67 lead to the degrees of Bachelor of Arts, Bachelor of Philosophy, Bachelor of Science, and Bachelor of Letters. The degree of Bachelor of Letters will be discontinued after June, 1904. The following regulations have been prescribed relating to the attainment of these degrees:

THE BACHELOR'S DEGREE.

1. In order to become a candidate for a Bachelor's degree a student must formally announce his intention by filing his petition with the Registrar, using for the purpose a form provided by the University. The petition must be filed on or before the last Saturday in May of the year next preceding the year in which the candidate expects to obtain the degree.

2. He must have pursued his studies, in residence, in the College of Liberal Arts of this University for at least one college year.

3. He must have completed all the courses prescribed for that particular degree, and elective courses in addition so as to have

secured a total credit of one hundred and twenty semester-hours. The total credit obtained must include major work in at least one department, and minor work in at least one other department.

4. In making up the total number of hours required for graduation, not more than one-eighth of the work done under this Faculty may be of the grade C, except as provided for on page 142.

THE MASTER'S DEGREE.

A Master's degree may be conferred upon Bachelors of Arts, Philosophy, Science, or Letters of this University, or of any other institution of accepted grade, under the following regulations:

1. Before being recommended for any Master's degree the candidate must have pursued studies in residence in the College of Liberal Arts of this University for at least one year, except as stated below.

[The provision "in residence" requires regular attendance upon all prescribed lectures or other exercises in the courses which the candidate pursues. Such prescribed lectures and exercises will occur at least once a week in each course of instruction.]

2. Any Bachelor of this University may become a non-resident candidate for the corresponding Master's degree; but such candidates cannot receive the degree earlier than two years after graduation. Graduates of other institutions will not be admitted to the College of Liberal Arts as *non-resident* candidates for the Master's degree.

3. Any Bachelor of this University, or of another institution of accepted grade, may become a candidate for the Master's degree while pursuing studies in the Medical School, or Law School of this University, or in Garrett Biblical Institute, or on the completion of the professional course in either of these schools, subject to the provision of Rule 3 on page 139.

4. Each candidate for a Master's degree must present credit in approved courses of study amounting to thirty semester-hours. If he is enrolled in one of the professional schools above enumerated, or has graduated therefrom, his credit must amount to twelve semester-hours of advanced work, in an approved field of study, in addition to the completion of the maximum prescribed professional course.

This advanced work, in the case of students in the professional schools, may be taken either under the Faculty of the College of Liberal Arts or the Faculty of the professional school, but in either case it must be approved by the Committee on Graduate Study of the College of Liberal Arts.

5. At least one-half of the work offered for the degree must be chosen from one or, at most, two departments of study in which the candidate has previously taken the undergraduate *major work*, or an equivalent.

6. The candidate must present a thesis on an approved topic pertaining to the primary subject. The subject of this thesis must be filed with the Registrar not later than the first Wednesday in December; the thesis itself must be filed as early as the Saturday next preceding the last Monday in April. *

7. Candidates for the Bachelor's degree who during their undergraduate course devote their excess of time to the continuation of their major subject, or to such other advanced topics as may be approved by the Registration Committee, may have such work, if satisfactorily completed, credited toward the Master's degree. But in no case will the Master's degree be conferred in less than one year after the conferring of the Bachelor's degree.

8. A non-resident candidate for a Master's degree will be required to make written report from time to time as to the progress of his work.

9. The final examination of candidates will take place at the University at an appointed date, about May 20th. The examination is conducted by a committee composed of the head of the department in which the student has done his primary work and at least two other members of the Faculty chosen from the same or from related departments. In the case of candidates doing work in the professional schools, a representative of the College of Liberal Arts is invited to be a member of the examining committee.

THE DOCTOR'S DEGREE.

The degree of Doctor of Philosophy is conferred under the following regulations:

1. The candidate must have received the Bachelor's degree from this institution, or from some other of accepted standing.

2. The degree may be conferred on successful candidates after three years of graduate study, of which at least two must be in residence. The last year, or the first two years, of the three required must be spent in residence at this University. The period of three years may, however, be shortened in the case of students who, as undergraduates, have pursued special studies beyond the requirement for major work in the direction of their proposed graduate work. Study for any specified time will not be regarded as sufficient ground for conferring the degree. High attainments in scholarship and evidence of original investigation will be expected.

*Samples of the paper to be used for theses may be obtained from the Librarian.

["In residence" will be interpreted as defined under the requirements for the Master's degree.]

3. Two-thirds of the candidate's time must be given to advanced work in some one department which shall constitute his primary subject. The remaining time must be given to either one or two secondary subjects. The requirement, "advanced work," will imply an amount of preliminary study in the given subject equivalent to at least the undergraduate "major work" of the department concerned.

4. A reading knowledge of French and German will be required, as a preliminary qualification. In exceptional cases an equivalent in Latin, Greek, or Hebrew may be accepted instead of French.

5. Every candidate must present a thesis upon an approved topic pertaining to his primary subject. The thesis must give evidence of original investigation. A revised typewritten copy must be presented to the Registrar as early as the Saturday next preceding the last Monday in April. If the thesis is approved the candidate must, within such time as shall be designated, present twenty-five printed copies of it to the University Library. The final examination, which will be held about May 20th, will be both written and oral, and will cover the entire primary subject, including the topic of the thesis.

Each branch of the secondary subject may be completed whenever the candidate shall pass a written examination upon it.

Students in Garrett Biblical Institute may become candidates for the degree of Doctor of Philosophy under the following special regulations. The general regulations affecting examinations, thesis, and a knowledge of foreign languages apply to these candidates as well as to others.

1. The candidate must have completed a Bachelor's course, the sufficiency of which has been accepted by a joint committee of the Faculty of the Institute and the Faculty of the College of Liberal Arts.

2. He must have completed two full years of theological study, either in Garrett Biblical Institute or in another theological school of recognized high standing.

3. He must be accepted as a candidate for the degree of Doctor of Philosophy by a vote of the Faculty of the Institute, and be registered as a candidate for such degree with the Registrar of the College of Liberal Arts; after which he must continue in residence at least two years, and complete the work of two full years. Of this work two-thirds must be taken in one department of the In-

stitute; the remaining third may be taken in not more than two departments of the Institute or of the College of Liberal Arts. The whole course of study selected will be subject to the approval of the Faculty of the College of Liberal Arts, through its committee on Graduate Study. During the two years of his residence the candidate will be subject to the direction of the head of the department in which his primary work is taken.

4. Of the four years thus required as a *minimum* for the degree of Doctor of Philosophy, three at least must be spent in residence at a theological school of high standing, and the last two at Garrett Biblical Institute.

GOVERNMENT.

Students are temporary residents of the city of Evanston, and as such are amenable to the laws of the state and the ordinances of the city. They are also subject to the rules and regulations made by the Faculty. They are held to have a knowledge of the Statutes of the University and of all Faculty requirements published in this catalogue, or otherwise brought to their attention.

Students may be separated from the institution whenever in the opinion of the Faculty they are pursuing a course of conduct seriously detrimental to themselves or the University. The University will not tolerate either idleness or dissolute habits.

Athletics.—The following action of the Trustees controls the management of athletic affairs within the University.

A committee for the regulation of athletic sports shall hereafter be annually appointed and chosen as follows: Three members of the University Faculties and three alumni of the University, these six to be appointed by the executive committee; and also three undergraduates to be chosen during the first week of the College of Liberal Arts year by the Athletic Association.

The committee shall have entire supervision and control of all athletic exercises within and without the precincts of the University, subject to the authority of the Faculty of the College of Liberal Arts.

In accordance with this action, a Committee for the Regulation of Athletic Sports has been created, and has adopted the

following regulations, based on the Intercollegiate Conference Rules:

1. No one shall participate in any intercollegiate game or athletic sport unless he be a *bona fide* student, doing full work in a regular or special course, as defined in the curriculum of his college; and no person who has participated in any intercollegiate game as a member of any college team shall be permitted to participate in any game as a member of another college team until he has been a matriculant in such college, under the above conditions, for a period of one year, or has obtained a college academic degree; academy students shall not be eligible to membership on college teams.

2. No person shall be admitted to any intercollegiate contest who receives any gift, remuneration, or pay for his services on the college team.

3. No student shall play on the teams of any college or colleges for more than four years in the aggregate.

4. No student shall participate in any intercollegiate contest who has ever used or is using his knowledge of athletics or his athletic skill for gain. No person who receives any compensation from the University for services rendered by way of regular instruction shall be allowed to play on any team.

5. No student shall play under an assumed name.

6. No student shall be permitted to participate in any intercollegiate contest who is found by the Faculty to be delinquent in his studies.

7. All intercollegiate games shall be played on grounds either owned by, or under the immediate control of, one or both of the colleges participating in the contest, and all intercollegiate games shall be played under student or college management, and not under the control of any other corporation, association, or private individual.

8. The election of managers and captains in each college shall be subject to the approval of its committee on athletics.

9. College football teams shall play only with teams representing educational institutions.

10. At least ten days before every intercollegiate contest, the respective chairmen of the athletics committee of the institutions concerned shall submit to each other a certified list of players eligible, under the rules adopted, to participate in said contest. It shall be the duty of the captains of the respective teams to exclude from the contest all players save those so certified.

11. Athletic committees shall require each candidate for a team to represent the University in intercollegiate contests to subscribe to a statement that he is eligible under the letter and spirit of the rules adopted.

12. No person having been a member of any college athletic team during any year, and having been in attendance less than *one college half-year*, shall be permitted to play in any intercollegiate contest thereafter until he shall have been in attendance six consecutive calendar months.

13. No schedule of games shall be fixed without the approval of the Committee for the Regulation of Athletic Sports. No additional dates for games shall be accepted without the approval of the chairman of said committee.

14. The selection of players for any team shall be subject to the approval of the Committee for the Regulation of Athletic Sports. And in order to provide proper information on which to act, every student desiring to play on any team shall fill out a blank prepared by the committee. To this certificate shall be appended a certificate signed by the physical director, attesting the applicant's physical fitness for membership in the team proposed.

15. No students of the departments situated at Evanston, and no member of any University football or baseball team, shall, during term time, without the permission of the Committee for the Regulation of Athletic Sports, play on any like team not connected with the University.

The Committee for the Regulation of Athletic Sports for the current year consists of the following members: Professors Long, White, and J. A. Scott; Messrs. F. B. Dyche, '80; J. F. Oates, '93; A. N. Culver, '94; C. E. Stahl, H. A. Fleager, and Harry I. Allen.

Musical Clubs.—Student musical organizations, such as glee, banjo, or mandolin clubs, and the University Band, are under the supervision of a Faculty Committee appointed for that purpose. The chairman of the committee must be informed of the intended organization of any such association, with its proposed plans, purposes, and membership. No formal organization is permitted without the knowledge and sanction of the committee. It is especially necessary that the business managers of such organizations make no final arrangements for public appearances of the clubs without the consent of the committee. Under no circumstances will concert dates be permitted to interfere with examinations, or to interrupt study routine. Students with defective standing are not allowed to be connected with such organizations.

Social Entertainments.—In the interest of the college community the Faculty has adopted the following regulation:

No organization or group of students shall hold in any year more than one party or social entertainment at which both ladies and gentlemen are present. Previous permission must in all cases be obtained from the Committee on Social Affairs. Such parties or entertainments shall close not later than eleven o'clock.

RELIGIOUS WORSHIP.

The charter of the University provides that "no particular religious faith shall be required of those who become students of this institution." The University was not established with the view of forcing on the attention of students the creed of any particular church, but for the promotion of learning under influences conducive to the formation of a manly Christian character. This continues to be its aim and purpose.

Students are expected to attend public worship on Sunday in the church of their choice.

Chapel service is held at noon on each week day except Saturday. Attendance is required under the following regulations:

1. When a student's record shows an attendance of less than three-fifths of the chapel exercises of any semester, one semester-hour is added to the requirements for graduation of that student for every three credits needed to make good the deficiency. In applying this rule, a deficiency of one or two credits is passed over to the next semester; in larger deficiencies, the excess above the highest multiple of three is carried over.

2. When at the close of a semester the chapel record of a student shows a surplus of chapel credits, the surplus credits are applied to cancel any semester-hours which may have been added to the requirements because of defective chapel record of any preceding semester; and the surplus chapel credits not needed to remove such semester-hours are transferred to the chapel record of the following semester.

3. When a student's chapel credits are deficient as many credits as he is expected to secure in one-half of a semester, his registration is canceled, and may be restored only on the recommendation of the committee on chapel attendance.

CHRISTIAN ASSOCIATIONS.

A Young Men's Christian Association and a Young Woman's Christian Association are maintained in active operation, and exert a helpful influence upon the religious life of the students. The headquarters for the Men's Association is at the Association House, 2023 Orrington Avenue, and for the Woman's Association is at Willard Hall. Each Association employs a general secretary and maintains a bureau of self-help for students seeking employment. Under the direction of these organizations, religious meetings are held each week, and daily study of the Bible is promoted.

STUDENT ORGANIZATIONS.

Through the agency of voluntary student associations an active interest is maintained in matters which relate to the intellectual and social life of the student community.

Central Debating League.—Northwestern University, the University of Michigan, the University of Chicago, and the University of Minnesota compose the Central Debating League. The purpose of this organization is the development of readiness and skill in speech and debate through the public discussion of leading questions of the day.

The universities named are arranged in two groups for the semi-final debates. The final contest in each year takes place in Chicago on the first Friday in April, at which time the debate is between the winners from the groups.

Northern Oratorical League.—The oratorical associations of Northwestern University, the University of Michigan, the University of Wisconsin, the University of Iowa, the University of Chicago, the University of Minnesota, and Oberlin College compose the Northern Oratorical League. The purpose of this organization is to promote an interest in public speaking, and to elevate the standard of oratory, by holding annual contests. The contests of the League are open only to undergraduates.

Through the generosity of Mr. Frank O. Lowden, of Chicago, an alumnus and trustee of this University, a prize of $100 is annually awarded to the successful contestant, and one of $50 to the person winning second place.

Literary and Scientific Societies.—The following societies and clubs meet regularly for purposes of literary culture or for the advancement of knowledge in special fields: Hinman Literary Society, Rogers Debating Club, Adelphic Literary Society, Science

Club, Die Deutsche Gesellschaft, Der Deutsche Litteratur Verein, Botanical Club, Zoölogical Journal Club, Mineralogical Journal Club, History Club. Some of these organizations are composed of members of the Faculty and advanced students, who meet together for the presentation and discussion of the problems pertaining to their special departments.

Other Organizations.—Various other organizations are maintained by the students, including an Athletic Association, Glee, Banjo, and Mandolin Clubs.

THE UNIVERSITY SETTLEMENT.

An association, composed of alumni and friends of the University, maintains at 122 Augusta Street, Chicago, the Northwestern University Settlement. College graduates and others reside in the settlement house, and seek to influence the surrounding community as members of it. Opportunity is also offered to undergraduates for philanthropic work and practical acquaintance with sociological problems. The plan includes classes for instruction, clubs for social improvement, a reading-room, lectures, concerts, house-to-house visitation, and legal and medical dispensaries. The expenses are met by membership subscriptions and voluntary contributions.

FELLOWSHIPS.

For the promotion of research the University has established six fellowships of $300 each. These are assigned by the President, from year to year, to various departments according to the merits of the applicants and the needs of the departments.

They are open alike to men and women, whether graduates of this University or of other institutions. All appointments to fellowships are made for one year.

Fellows are not required to pay tuition fees, but may be called upon to give a limited amount of assistance in the work of the department. Fellows entering from other institutions must pay the matriculation fee.

Applications for appointment as Fellow should be made to the President of the University; and such applications, together with credentials, must be in his hands not later than

the first of April in each year. The fellowships will be assigned not later than the first of May. Blank forms for application may be had from the Registrar.

SCHOLARSHIPS.

The following scholarships are awarded annually to meritorious undergraduates in the College of Liberal Arts. Applications for appointment should be made to the Dean of the College not later than the first of May in each year.

Catherine M. White Scholarships.—From a bequest of nine thousand dollars received under the will of Catherine M. White, of Evanston, there have been established five scholarships paying full tuition fees. The recipients must hold themselves responsible for a limited amount of clerical service.

Missionary Scholarships.—The University, in June, 1899, established two scholarships in the College of Liberal Arts, entitling the holders to free tuition. To these scholarships the Northwestern Branch of the Woman's Foreign Missionary Society of the Methodist Episcopal Church may nominate persons intending to enter upon mission work in the foreign field. In making nominations preference is given to students from foreign lands.

Methodist Episcopal Church Scholarship.—Founded by the First Methodist Episcopal Church of Evanston for the benefit of meritorious students, and yielding annually the interest on one thousand dollars. This scholarship is awarded by the church officials.

Chicago Record-Herald Scholarship.—A scholarship, the gift of the Chicago *Record-Herald*, which affords free tuition and incidental expenses for one student.

Tully Scholarship.—Founded by Mr. B. F. Tully of Chicago, available for a properly accredited candidate for Foreign Missionary service, and paying the full tuition fees of the recipient. In awarding this scholarship promise of usefulness, scholastic attainment, and pecuniary need will be considered in the order named.

Marcy Scholarship in Biology.—The University has secured a table at the Marine Biological Laboratory, Wood's Holl, Massachusetts, for the sole use of advanced students from the biological departments of the College of Liberal Arts. The occupants of this table are entitled each season to all the privileges of the laboratory, including instruction, lectures, and the use of appliances and apparatus.

The American School of Classical Studies at Rome.—The University is a contributor to the support of the American School of Classical Studies at Rome, and is represented by a member of the Faculty on its Board of Managers. The school affords facilities for archæological and classical investigation and study in Rome, and graduates of the College of Liberal Arts are entitled to all its advantages without expense for tuition.

Accredited School Scholarships.—A scholarship giving free tuition for the first year of the college course is granted to one student from each of the high schools in the State of Illinois on the accredited list of the University. The scholarship each year will be awarded to the graduate of the school who has completed the requirements for admission to college, and who has made the most satisfactory record of scholarship in the class as certified by the principal of the school. In case the pupil having the highest rank does not avail himself of the scholarship, it may be granted by the University, at its discretion, to a candidate of lower rank.

PRIZES.

The following prizes are offered to students in the College of Liberal Arts who are candidates for a degree. No successful contestant can become a second time a competitor for the same prize. No person will be allowed to compete for any prize against whom, at the time for appointing contestants, unredeemed failures are recorded in more than one department of study.

The Kirk Prize in Oratory.—A prize of one hundred dollars, the gift of Mr. John B. Kirk, of Evanston, is awarded

each year to the member of the graduating class who excels in original oratory. The conditions on which the award is made are as follows:

1. Five contestants will be appointed by the Faculty, and announcement of the appointments will be made the first Friday in May.

2. These appointments will be made on the basis of the rhetorical work done during the last three years of the undergraduate course—equal weight being given to the following records: (1) English Language A; (2) English Language B; (3) Elocution B; (4) Elocution C; (5) the Oration submitted for competition.

3. At this contest no prompting of the speakers will be allowed, and failure of memory will exclude a competitor from consideration in the assignment of the prize.

4. The award will be made by a committee appointed by the Faculty, but composed of persons who are not members of the Faculty. The decision will be announced at Commencement.

The Harris Prize in Political and Social Science.—A prize of one hundred dollars, the gift of Mr. Norman W. Harris, of Chicago, is awarded to the writer of the best essay on an assigned topic in the department of Economics, Finance, and Administration.

The conditions on which the Harris prize will be awarded are as follows:

1. No undergraduate student will be allowed to compete for this prize unless he shall have completed at the time of making the award the equivalent of Courses A and C in Economics.

2. Essays offered in competition for this prize must contain not less than 10,000 words, and must be either printed or typewritten. If typewritten, they must be on letter paper of a good quality, of the quarto size, with a margin of not less than one inch at the top, at the bottom, and on each side, so that they may be bound without injury to the writing. On the title-page of each essay must be written an assumed name, and under cover with the essay must be sent a sealed letter containing the true name of the writer and superscribed with his assumed name.

3. The copies of all essays submitted for this prize become the property of the University, and the essay receiving the prize shall have indorsed upon it a certificate of that fact.

4. Each year the essays submitted in competition for this prize must be deposited with the Registrar of the College before twelve o'clock noon on May 1st.

5. The Faculty will appoint three judges of the essays offered and the prize shall be awarded to the essay declared by at least two of the judges to be the best; *provided*, that the University expressly reserves the right to make no award of the prize in any year in which the best essay offered shall, in the opinion of a majority of the judges, not be of sufficient merit to deserve a prize.

The Gage Debate Prizes.—Three prizes, of fifty, thirty, and twenty dollars, respectively, are given annually by the Honorable Lyman J. Gage for excellence in debating. The recipients of these prizes are selected through a series of debates, held in the autumn of each year, to which students from all departments of the University are eligible. The three men receiving the highest ranks in this series of debates receive the Gage prizes in the order of their markings, and they also become the representatives of the University in the annual contest of the Central Debating League.

The Sargent Prizes in Public Speaking.—Two prizes of fifty and twenty-five dollars, respectively, endowed by Mr. George M. Sargent, of Evanston, will be given to the two students who shall excel in public speaking.

1. Eight candidates will be appointed by the Faculty, the selection being confined to students who have completed not less than fifty hours of college work, Elocution B included.

2. In the competition, at least one of the prizes must be given for an oratorical effort. In no case may a declamation exceed twelve hundred words.

3. At this contest no prompting of the speakers will be allowed, and a failure of memory will exclude a competitor from consideration in the assignment of the prizes.

4. The award will be made by a committee appointed by the Faculty, but composed of persons who are not members of that body.

Prizes in Oratory.—Two prizes of fifty and twenty-five dollars, respectively, the gift of Mr. Charles T. Boynton, of Evanston, are given annually to the contestants obtaining the first and second places in the preliminary contest to determine who shall represent the University in the annual contest of the Northern Oratorical League.

THE GROUNDS AND BUILDINGS.

The Campus has an area of about forty-five acres, and is beautifully situated on the shore of Lake Michigan. University Hall, Fayerweather Hall of Science, Dearborn Observatory, Fisk Hall, Memorial Hall, Swift Hall, Orrington Lunt Library, Old College, the Gymnasium, the Dormitory and Heck Hall, are all on the Campus. Willard Hall, Pearsons Hall and Chapin Hall are distant from the campus about three minutes' walk.

The University has provided large athletic grounds suitably prepared for use. A grand stand, erected by the alumni and students, furnishes seats for about seven hundred persons. In connection with it are dressing-rooms for the use of athletic teams, together with the necessary baths.

A detailed statement as to the University buildings in Evanston is given below. An account of those which are in Chicago will be found in the portions of the catalogue which relate to the professional schools.

University Hall was erected in 1869. It contains the museums of anthropology, botany, geology, and zoölogy, the botanical and zoölogical laboratories, as well as a large number of lecture and recitation rooms. Adjoining the recitation rooms are the private offices of the professors. Here also is the office of the President of the University, and the administrative offices of the College.

The Fayerweather Hall of Science, erected in 1886, was the gift of the late Mr. D. B. Fayerweather, of New York City. It is constructed of stone and red pressed brick, with terra-cotta trimmings.

The front is 130 feet, and the depth 60 feet. At the rear are two wings, extending 54 feet, inclosing a court 54 feet square. The whole building is divided into two departments, for chemistry and physics, separated by a fireproof wall reaching from the foundation to the roof. The building is heated with steam, and is thoroughly ventilated. It has the latest improvements and facilities for instruction in chemistry and physics.

The Dearborn Observatory was erected in 1888–1889 through the generosity of Mr. James B. Hobbs, of Chicago. Its length from north to south is 81 feet, and its greatest breadth is 71 feet. It is constructed of stone in the most substantial manner. The building includes a dome for the great Equatorial, a Meridian Circle room,

Library, and eight additional rooms for other purposes. The whole is arranged especially for convenience in carrying on astronomical work.

The Orrington Lunt Library Building was erected in 1893–1894. Its erection was made possible by a gift from the late Mr. Orrington Lunt, of Evanston, supplemented by the gifts of other generous donors. The appearance of the building, in its proportions and architectural details, is noble and pleasing. The material used is Bedford limestone. The dimensions of the building are 150 by 56 feet. The main floor contains the room for book storage, supplemented by a room in the basement, the reading room, and the offices of administration. On the second floor there is an auditorium of handsome finish, with seating capacity for five hundred persons. On the same floor there is a large lecture-room, and other apartments for class, seminary, or office use. In the third story, which extends over the central section of the building, and in the well-lighted basement, there are rooms used for recitations and also for general University service. The building is heated by steam from a detached station. It is lighted throughout by gas and electricity.

Fisk Hall.—This building was erected in 1898 and dedicated January 28, 1899. It is devoted to the work of the Academy, and is named for Principal Herbert F. Fisk, who has been connected with the Academy since 1873. The building is Romanesque in style, and is a three-story structure of brick and terra-cotta, with stone trimmings and a tile roof. It cost about $75,000, and was the gift of Mr. William Deering. The building stands at the south end of the Campus and has a frontage of 180 feet on Sheridan Road. The heating, lighting, and ventilating appointments of the building are as perfect as science can make them. Both gas and electricity are used in lighting. The woodwork throughout is of quartered oak.

The Annie May Swift Hall.—This building was erected during the years 1894–1895, for the work in elocution and oratory. The style of architecture is Venetian. The lower part of the building is of rock-faced Lemont limestone, and the upper stories of buff-colored Roman brick and terra-cotta. The floor is of red tile. The building is heated by steam and lighted by both gas and electricity. It is named in memory of a deceased daughter of the late Mr. Gustavus F. Swift of Chicago, one of the trustees of the University, and the largest contributor for the erection of the building. On the first floor are an auditorium, reading, and reception rooms. The second story is divided into fifteen rooms for private instruction. The floors and partitions are deadened by an improved system of construction.

Music Hall is situated immediately north of Woman's Hall, a short distance west of the Campus. It is designed as a home for the

School of Music, and was completed in time for occupancy during the spring term, 1897. It is substantially built of stone and brick, surmounted with a tile roof and finished in Georgia pine. The first floor is divided into fourteen teaching and practice rooms, including an office. The second floor contains three additional class-rooms and a well-arranged concert-hall, seating over three hundred. The hall is provided with a large stage, dressing-rooms, a grand piano, and a two-manual pipe-organ with pedals.

Old College.—This building, the first to be erected by the University, originally stood on the corner of Hinman Avenue and Davis Street. For many years it was the only building which the University used for educational purposes. The building was moved to the Campus, in 1871, and was enlarged for the use of the Academy. In 1899, it was moved from the site west of Fisk Hall and fronting the Sheridan Road, to its present position south of the gymnasium and to the rear of Fisk Hall. It has been refitted and is used at present for general University purposes.

Gymnasium.—This is a well-lighted, two-story brick building. The basement contains dressing-room, lockers, baths, and a place for ball-throwing. The exercising-room is 40 by 80 feet, with a height of ceiling of 20 feet, unobstructed by pillars, leaving considerable space for the practice of indoor athletics. It is supplied with light and heavy apparatus for general gymnastic and athletic exercise, together with such appliances as are necessary for the development of a symmetrical body. The director's office is on the main floor, and contains appliances for making physical examinations. The entire building is lighted by electricity.

The Dormitory, erected in 1890, is designed to accommodate a limited number of young men, at a moderate charge for rent. The rooms are, for the most part, in suites, consisting of a study and two well-lighted bedrooms with wardrobes.

Willard Hall is a large edifice of pleasing architecture. It accommodates 135 students, contains a chapel and other public rooms, but is chiefly devoted to private apartments for young women. Many of the rooms are in suites. They are of good size, well lighted and ventilated, and are cheerful and attractive. The building is provided with fire escapes, and is heated by hot water.

Pearsons Hall and Chapin Hall are convenient and well-furnished homes, constructed of pressed brick and stone. Each affords accommodations for about sixty young women.

Memorial Hall, a handsome structure of pressed brick, was erected for Garrett Biblical Institute, and dedicated in May, 1887. The most attractive part of the interior is the chapel, which has seating capacity for about five hundred. The windows are adorned with

elaborate designs in rich cathedral glass. The designs are in harmony with the idea of the "Memorial Hall," being in memory of deceased professors of the Institute, and of others well known for interest in theological studies.

Heck Hall, the dormitory of the theological students, was dedicated in July, 1867. It is a brick building, and is five stories in height. It is heated by steam and lighted by electricity.

THE LIBRARY.

The Library of the College of Liberal Arts is in a commodious library building, described on page 157. During the college year the library hours are from 8 A.M. to 9 P.M. In the summer vacation the hours are from 10 to 12 A.M., except Saturday. All officers and students of the University may draw books for home use. Persons not connected with the University, who desire to use the library for purposes of study, and who are responsibly introduced, may be allowed library privileges. The library contains 49,957 bound volumes, and about 35,000 unbound pamphlets.

It is classified in two sections, the General Library and the Greenleaf Library. The General Library, numbering 38,711 volumes, is designed to supply books appropriate to the several departments of study in the University, and also to furnish students with works of general reading and reference. The reading-room is provided with a large selection of periodicals, complete sets of many of which are placed on the shelves for reference.

The Greenleaf Library, the gift of the late Luther L. Greenleaf, Esq., contains 11,246 volumes, also a large and valuable collection of unbound dissertations and monographs, chiefly publications of foreign universities and learned societies. It is unusually complete in the Greek and Latin classics, every author being represented by the best editions from the earliest to a recent date. It contains also a choice selection of standard works in German and other modern languages. In the subjects of history, philosophy, theology, and the fine arts, there are many works of unique value.

The Schneider collection, lately added to the German section of the library through the generosity of friends of the University, numbers 2,500 volumes. It includes many first editions of standard authors. Among its rarities are original prints from the period of the Reformation, and a large collection of annuals (*Musenalmanache* and *Taschenbücher*) of the eighteenth and nineteenth centuries.

The Orrington Lunt Library Fund, the gift of the gentleman whose name it bears, is set apart as an endowment for the purchase of books. The fund promises, as it becomes productive, to give the library large and permanent growth.

On payment of the regular term bills, every student is entitled to the privileges of the library.

Students of the University have the use of the library of Garrett Biblical Institute, numbering 14,088 bound volumes. They have access also to the Evanston Public Library, which is especially rich in works on history and general literature, and to the great libraries of Chicago—the Chicago Public Library, the Newberry Library, the John Crerar Library, and the Library of the Chicago Historical Society.

THE ASTRONOMICAL OBSERVATORY.

The Observatory is provided with a substantial building (see page 156), the gift of James B. Hobbs, Esq., of Chicago. It is known as the Dearborn Observatory, a name given it before it was removed from Chicago to Evanston. Its objects are to make original researches in astronomical science, to assist in the application of astronomy to geography, to communicate exact time, and to furnish instruction in astronomy to the students of the University, both those in the regular course and those who give special attention to the study.

The Observatory is open to visitors on Thursday evening of each week. Visitors may also be admitted at other times by making special arrangements with the Director of the Observatory.

The principal instruments of the Observatory are:

1. The great equatorial refracting telescope, made by Alvan Clark & Sons, of Cambridge, Massachusetts, in 1861. The telescope is fitted with driving clock, micrometer, and other appliances necessary for first-class work. The dimensions of the Equatorial are:

Diameter of declination circle, 30 inches; reading by vernier to five minutes, and by two microscopes to ten seconds of arc.

Diameter of hour circle, 22 inches; reading by vernier to single minutes, and by microscopes to single seconds of time.

Focal length of telescope, 23 feet.

Aperture of object glass, 18½ inches.

2. A meridian circle of the first class, constructed in 1867, by Messrs. A. Repsold & Sons, of Hamburg. This instrument has an object glass of six French inches aperture, and a divided circle of forty inches diameter, reading by four microscopes. In plan of construction it is like Bessel's celebrated Königsberg circle by the same makers, but has some recent improvements in the mode of illuminating the field of view, together with apparatus for registering declinations. Hough's printing and recording chronographs are used for recording meridian observations and other phenomena.

The Observatory has a chronometer (William Bond & Son, No. 279), three mercurial pendulum clocks, and an astronomical library containing about thirteen hundred volumes and pamphlets.

THE MUSEUM.

The Museum of the College of Liberal Arts contains collections illustrative of anthropology, art, botany, geology, mineralogy, and zoölogy.

The collections relating to anthropology, botany, geology, and zoölogy are at present contained in University Hall. The art collection is in the Orrington Lunt Library. The mineralogical collection is in the Fayerweather Hall of Science.

The following descriptions indicate the character of the collections:

MUSEUM OF ANTHROPOLOGY.

This comprises mainly collections in aboriginal archæology. Primitive ceramic art in this country is well represented by several hundred specimens from the mounds of Illinois, Wisconsin, Kentucky, and Missouri.

Primitive work in stone and copper is represented by large collections from various parts of the United States and from England The Museum contains more than 7,000 specimens neatly arranged in cases in a department by themselves. During the year 1900, an important collection of material from the cliff-dwellings and the pueblos of New Mexico was added to the Museum.

MUSEUM OF ART.

A large room in the Orrington Lunt Building has been handsomely fitted up by the University Guild for an art collection which the Guild has gathered for the University. The University Guild is an organization of two hundred women, mostly resident in Evans-

ton, who seek to secure for the University valuable works of art. The collection already secured is valued at several thousand dollars.

The Art Museum is open to the public on Wednesday afternoons.

MUSEUM OF BOTANY.

The college herbarium is made up of gifts received from friends of the college and of collections made by students and instructors. It now contains about five thousand species. It includes collections made by Kennicott from the Red River of the North; by Vasey from the Rocky Mountains; by Thomas and Bentley from Southern Illinois; by Mrs. Kidder from Brazil; collections from New England, and New York, the Lake Superior region, and Cook County, Illinois.

The Henry H. Babcock herbarium, donated in 1887 by Mrs. Mary Keyes Babcock, of Kenilworth, is systematically arranged, handsomely provided with substantial cases, and contains ten thousand species from all quarters of the globe.

MUSEUM OF GEOLOGY.

This museum contains typical rocks from this country and from Europe which exhibit the variations in structure and texture of the large groups of sedimentary, crystalline (metamorphic), and igneous rocks. They also show the rock formations in the geological column from the more ancient to the recent rocks.

The series of fossils, both of plants and of animals, are quite extensive, containing characteristic fossils of the different geologic periods. The collections which are especially valuable are: 1, Cretaceous and Tertiary fossils, the gift of the Smithsonian Institution; 2, Fossils and rocks from Illinois Geological Survey; 3, Niagara fossils from Chicago and Racine, some of which are type specimens; 4, Illinois Carboniferous flora, largely from Grundy County; 5, Miscellaneous, containing specimens from many parts of the world.

MUSEUM OF MINERALOGY AND LITHOLOGY.

The Mineralogical Museum contains specimens of most of the mineral species in such numbers as to well illustrate their characteristics and occurrence.

Besides those specimens which have been accumulating to the museum for several years, are to be mentioned the Ayers loan-collection; additions from the Columbian Exposition, consisting chiefly of mass specimens and illustrations of economic ores; the Tyler collection, containing many crystals, notably good calcites; and a fine collection of azurites and malachites. Owing to want of space and cases, the museum is partly in University Hall and partly in Science Hall.

In the Lithological section are several hundred rock specimens from different parts of this country and from Europe.

MUSEUM OF ZOÖLOGY.

This museum contains (1) all (with few exceptions) the mammals, birds, reptiles, and batrachians indigenous to Illinois; (2) all the mammals and birds of the New South Wales exhibit at the Columbian Exposition. The kangaroos and lemurs, the platypus and the echidna, the emu and the cassowary, the rifle-bird, the regent and the lyre bird, and the apteryx from New Zealand, in all 450 specimens, make a very complete presentation of that strange fauna; (3) a series of birds and a series of corals from the Philippine Islands (it is thought that the species of cuckoos and parrots are complete for the locality); (4) a series of skeletons, mostly prepared by Ward, including the elephant, the whale, the American crocodile, and skeletons of birds and fishes; (5) miscellaneous (among the larger animals are the moose, the buffalo, the Virginia deer, the white bear, and the reindeer). There are birds from India, Central America, Brazil, British Guiana, Norway, and Russia. There is a collection of fifteen thousand marine and fresh-water shells. There is a large collection of fishes donated by the Smithsonian Institution; also fishes from Lake Michigan, prepared by Dr. Phillips. There are crustaceans, echinoderms, sponges, and a multitude of low forms of marine life, many of them collected by Prof. Wm. N. Rice of Middletown, Connecticut. This museum contains 30,000 specimens.

CHICAGO ACADEMY OF SCIENCES.

The extensive collections of the Chicago Academy of Sciences are accessible to all students of the University.

THE LABORATORIES.

In the several laboratories of the College of Liberal Arts opportunities are provided for practical instruction in botany, chemistry, geology, mineralogy, physics, psychology, and zoölogy.

BOTANICAL LABORATORY.

Provision is made for conducting the work of the botanical courses in four rooms on the third floor of University Hall. Tables, compound and dissecting microscopes, glassware, reagents and lockers are provided for each student. Microtomes, incubators, and sterilizing apparatus are provided for the advanced courses. For the work in vegetable physiology material is obtained from neighboring greenhouses.

CHEMICAL LABORATORIES.

The accommodations of the Chemical Department in Science Hall include, on the main floor, a lecture-room, seating sixty; a reading-room; a laboratory for general chemistry and qualitative analysis, with forty-six tables; a laboratory for quantitative analysis, with twelve tables; a balance-room, the professor's office and private laboratory, and an assistant's room; in the basement, a general store-room, and a room with four tables equipped with special conveniences for water analysis.

GEOLOGICAL LABORATORY.

The Geological Laboratory is in University Hall and contains: (1) working tables for students, (2) study collections of typical rocks, minerals and fossils, (3) photographs and geological maps, (4) a geological library, (5) topographical models, (6) a large number of topographic maps, (7) petrographical microscopes, (8) thin sections of rocks and minerals. In addition to the above is a collection, belonging to the Wisconsin Geological and Natural History Survey, of over 1,100 specimens from the copper-bearing rocks of the Lake Superior district and the lead and zinc of southwestern Wisconsin, and the private rock collection and geological library of the Professor of Geology, all of which are open to students. The Geological Museum is on the floor above, and its specimens are also available for study and comparison.

MINERALOGICAL LABORATORY.

In the basement of Science Hall is situated the Mineralogical Laboratory, which contains models, glass and wooden, and goniometers for the study of crystallography; a large collection of minerals, an economic collection, blowpipe materials, rock-cutting machines, and petrographical microscopes, for students' use in mineralogy and petrology.

PHYSICAL LABORATORY.

The Department of Physics occupies fourteen rooms in Science Hall, excellently adapted to their purposes. It is fairly well equipped with modern instruments, especially in the departments of acoustics, electricity, and light.

Among rooms for special purposes may be mentioned a workshop in the basement, a room for work in spectroscopy, fitted with a curved grating, a room for dyeing and developing photographic plates, rooms for electric and magnetic work, a room for general optics, a photometric-room, a room for testing the strength of materials with a Riehli testing machine, and several small rooms for in-

dividual work. In the court of Science Hall is a power-house with an outfit of two engines, two motors, three dynamos and a large storage battery. These furnish power to the Observatory and Physical Laboratory. This building is also equipped with a machine shop, a drawing room, and a wood-working shop to furnish shop practice for students who are preparing to be engineers.

SHOPS.

The principal wood-working shop is in Fisk Hall. It contains twenty benches for joinery work and ten lathes for wood-turning, and is well fitted up with small tools. The metal-working shop is in the court of Science Hall. The equipment consists of six benches and vises, four engine lathes, shaper, drill-press and drill-grinder, with the necessary small tools.

PSYCHOLOGICAL LABORATORY.

The laboratory for experimental psychology, founded in 1900, has quarters in Old College, consisting of a general laboratory and apparatus room, dark room, research rooms, and an office and reading room. The reading room is supplied with the most useful books and periodicals on experimental psychology. The equipment includes everything necessary for purposes of demonstration in the course in general psychology, also for an elementary laboratory course, and for a few typical researches. Additions are made from time to time, as the work demands.

ZOÖLOGICAL LABORATORY.

The work-rooms of the Department of Zoölogy comprise a large general laboratory, a laboratory for vertebrate zoölogy, a seminary room, which is also used as a department library, and a preparator's room. The equipment consists of thirty-six excellent compound microscopes, several microtomes of the most recent make, dissecting microscopes and instruments, incubators, aquaria, glassware, reagents, and other apparatus necessary for elementary and advanced work in Zoölogy. The department is also supplied with a full set of Leuckart's Zoölogical charts and several sets of Ziegler's wax models. The library facilities for work in Zoölogy have been increased by the addition of several important biological periodicals and by the purchase of a large number of books and monographs.

THE GYMNASIUM.

The gymnasium is under the immediate supervision of a competent director, who gives his entire time to the class and individual instruction of students of both sexes. It is open

every week day from 10 A.M. till 6 P.M. Each student, upon entering the gymnasium, may, if he so desires, be measured and thoroughly examined physically; his health, strength, muscular development, physical defects, etc., will be carefully noted. From these data a special course of exercises, based on scientific principles, will be prescribed to meet his individual needs.

It is the purpose of the director of this department to offer to each student such advice and prescribe such exercises as will give increased health, strength, and symmetry of body.

FEES AND EXPENSES.

Matriculation Fee. Every student, on first entering the College of Liberal Arts, is required to pay a matriculation fee of five dollars. This fee is paid but once and is not returnable.

Tuition Fees for Undergraduates. An undergraduate student is required to pay a fee of thirty-five dollars at the beginning of each semester, of which amount twelve dollars is charged for incidentals and the remainder for tuition.

Sons and daughters of ministers, and students preparing for the Christian ministry who are properly recommended, pay eighteen dollars a semester for tuition and incidentals.

Students pursuing a single study, i. e., taking work which does not exceed five hours a week, pay a fee of eighteen dollars a semester. Candidates for the ministry, and the children of ministers, who are pursuing a single study pay a fee of twelve dollars a semester.

Tuition Fee for Graduate Students. A graduate student in residence is required to pay a fee of fifteen dollars a semester. If not in residence, he pays a fee of ten dollars at the time of registration, and an additional fee of twenty dollars on the presentation of his thesis, preparatory to his final examination.

Laboratory Expenses. Students who pursue laboratory courses are required to pay for the materials and apparatus actually consumed. To this end, they make a deposit at the beginning of each semester, unexpended balances being returned to them. The deposits vary for the different courses.

In the Chemical laboratory, for Course A the deposit is $7.50 a semester, while for Courses B, C, or D, it is $9.00 a semester.

In the Zoölogical laboratory, the deposit required is $5.00 a semester for any course.

In the Mineralogical laboratory, a fee of $3.00 is charged for Course A in the second semester, and a fee of $5.00 a semester for Course E.

These deposits are required alike of graduate and undergraduate students.

Graduation Fee. A fee of $10.00 is charged all persons taking any degree in the College of Liberal Arts. This fee is payable on the first day of May of the year of graduation.

The payment of fees is made at the University Business Office, 518 Davis Street, Evanston. Cheques should be made payable to "Northwestern University."

No tuition or incidental fees will be refunded except in case of sickness. In this event, if the student procures from the Dean a statement of honorable standing, and from a physician a certificate of inability to remain in attendance, half of the amount paid will be refunded, if application is made before the middle of the semester.

BOARD AND LODGING.

Students living in Willard Hall pay, according to the desirability of the room, from $99.00 to $108.00 each semester. Students in Pearsons Hall and in Chapin Hall pay for room and board $55.00 each semester, payment to be made in quarterly installments at the beginning and at the middle of the semester. A deposit of $5.00 is required when a room is reserved.

The prices paid in Willard, Pearsons, and Chapin Halls include a furnished room, light, fuel, and the washing of twelve plain pieces. The occupants of the rooms furnish their own bed-clothing, pillows, and towels. Room and board bills are payable strictly in advance. No deduction is made

for absence in any part of the term, except in cases of protracted illness.

The University does not undertake to provide dormitories for young men, beyond the limited accommodations described on page 158. They may obtain board and lodging in private families at reasonable rates. Clubs are also formed in which the cost of board is reduced to a minimum.

The following table exhibits the scale of annual expenditure:

	Low.	Average.	Liberal.
Tuition and incidental fees	$ 70	$ 70	$ 70
Board (36 weeks)	90	135	162
Room	32	72	100
Washing	18	25	35
Text-books and stationery	10	18	35
	$220	$320	$402

LOAN FUNDS.

The University receives annually a considerable sum of money to be loaned without interest to needy and deserving students who are preparing for the ministry, or for other forms of Christian work. Loans from this fund are available to students without distinction of sex, and are made upon the recommendation of the Committee on Loans and and Charitable Funds.

SELF-SUPPORT OF STUDENTS.

Numerous inquiries are addressed to the authorities of the University, by persons desirous of carrying on collegiate studies, who are without adequate funds to defray their expenses, asking whether the institution furnishes to students means of employment which will enable them to support themselves wholly or in part while engaged in the prosecution of their studies. It is proper to say that the University does not undertake to furnish employment to any student, and it does not encourage students to enter who are entirely without resources. It happens each year that not a few

students are able to aid themselves very materially by their labor while carrying on their studies, but the student is obliged to rely on his own ability, industry, and economy in all such cases. The Young Men's Christian Association conducts a bureau of self-help which is of great assistance in securing work for those desiring it, and any inquiries sent to the Secretary of that Association will receive careful attention.

For further information in regard to the College of Liberal Arts, address the Dean of the College, Evanston, Illinois.

For blank forms of admission and for particulars as to entrance requirements, address the Registrar of the College of Liberal Arts, Evanston, Illinois.

THE MEDICAL SCHOOL.

2421–2437 Dearborn Street, Chicago.

FACULTY.

Edmund Janes James, Ph.D., LL.D., *President.*

Nathan Smith Davis, A.M., M.D., LL.D., *Emeritus Dean and Professor of Principles and Practice of Medicine and of Clinical Medicine.*

Edward O. F. Roler, A.M., M.D., *Emeritus Professor of Obstetrics.*

John Hamilcar Hollister, A.M., M.D., *Emeritus Professor of Clinical Medicine.*

Ralph Nelson Isham, A.M., M.D., *Emeritus Professor of Surgery and Clinical Surgery.*

Edmund Andrews, A.M., M.D., LL.D., *Emeritus Professor of Clinical Surgery.*

Frank Seward Johnson, A.M., M.D., *Emeritus Dean and Professor of Medicine and of Clinical Medicine.*

John Harper Long, M.S., Sc.D., *Professor of Chemistry and Director of the Chemical Laboratories.*

Emilius Clark Dudley, A.M., M.D., *Professor of Gynecology.*

John Edwin Owens, M.D., *Professor of Surgery and Clinical Surgery.*

William Evans Casselberry, M.D., *Professor of Laryngology and Rhinology.*

Nathan Smith Davis, Jr., A.M., M.D., *Professor of Principles and Practice of Medicine and of Clinical Medicine, and Dean of the Faculty.*

Edward Wyllys Andrews, A.M., M.D., *Professor of Surgery and Clinical Surgery.*

Frank Taylor Andrews, A.M., M.D., *Professor of Clinical Gynecology.*

George Washington Webster, M.D., *Professor of Physical Diagnosis and Clinical Medicine.*

Joseph Zeisler, M.D., *Professor of Skin and Venereal Diseases.*

WILLIAM EDWARD MORGAN, M.D., *Professor of Clinical Surgery.*

HORACE MANN STARKEY, M.D., *Professor of Clinical Ophthalmology and Otology.*

HENRY GRADLE, M.D., *Professor of Ophthalmology and Otology.*

ARCHIBALD CHURCH, M.D., *Professor of Nervous and Mental Diseases and Medical Jurisprudence.*

JOHN RIDLON, A.M., M.D., *Professor of Orthopedic Surgery.*

WINFIELD SCOTT HALL, A.M., M.D., PH.D., *Professor of Physiology and Junior Dean of the Faculty.* (*N. S. Davis Professorship*).

ARTHUR ROBIN EDWARDS, A.M., M.D., *Professor of Principles and Practice of Medicine and of Clinical Medicine and Secretary of the Faculty.*

WELLER VAN HOOK, A.B., M.D., *Professor of Surgery and Clinical Surgery.*

JOSEPH BOLIVAR DE LEE, M.D., *Professor of Obstetrics.*

ROBERT BRUCE PREBLE, A.B., M.D., *Professor of Medicine.*

FRANK XAVIER WALLS, M.D., *Professor of Clinical Pediatrics.*

JOHN B. MURPHY, A.M., M.D., *Professor of Surgery and of Clinical Surgery.*

FREDERIC ROBERT ZEIT, M.D., *Professor of Pathology and Bacteriology.*

SAMUEL CRAIG PLUMMER, JR., A.M., M.D., *Professor of Surgical Anatomy and Operative Surgery.*

THOMAS JAMES WATKINS, M.D., *Professor of Clinical Gynecology.*

LESTER E. FRANKENTHAL, M.D., *Professor of Clinical Gynecology.*

HUGH TALBOT PATRICK, M.D., *Clinical Professor of Nervous Diseases.*

CHARLES BERT REED, M.D., *Assistant Professor of Obstetrics.*

CHARLES HILL, PH.D.,M.D., *Assistant Professor of Histology and Embryology.*

WILLIAM EDWARD SCHROEDER, M.D., *Professor of Surgery and of Clinical Surgery.*

LUCIUS CROCKER PARDEE, M.D., *Assistant Professor of Skin and Venereal Diseases.*

CHARLES HENDERSON MILLER, PH.G., M.D., *Assistant Professor of Pharmacology.*

PETER THOMAS BURNS, M.D., *Assistant Professor of Anatomy and Director of the Anatomical Laboratory.*

CHARLES LOUIS MIX, A.M., M.D., *Assistant Professor of Anatomy and Instructor in Medicine.*

LOUIS ERNEST SCHMIDT, M.S., M.D., *Clinical Professor of Genito-Urinary Surgery.*

WILLIAM CUTHBERTSON, M.D., *Lecturer on Clinical Gynecology.*

INSTRUCTORS.

Frederick Atwood Besley, M.D., *Instructor in Surgery and Clinical Surgery.*

Andrew Jackson Brislen, M.D., *Instructor in Clinical Orthopedic Surgery.*

Henry William Cheney, M.D., *Instructor in Operative Surgery.*

Paul Chester, B.S., M.D., *Instructor in Physical Diagnosis.*

Edson Brady Fowler, A.B., M.D., *Instructor in Clinical Medicine.*

Robert Tracy Gillmore, M.D., *Instructor in Clinical Gynecology.*

Winfield Scott Harpole, M.D., *Instructor in Clinical Medicine.*

William Johnson, Ph.C., *Instructor in Chemistry.*

William Alfred Mann, M.D., *Instructor in Clinical Ophthalmology and Otology.*

Frederick Menge, M.D., *Instructor in Clinical Laryngology and Rhinology and Histology.*

David Falkner Monash, M.D., *Instructor in Obstetrics.*

Paul Frederick Morf, M.D., *Instructor in Clinical Surgery.*

Isaac Donaldson Rawlings, M.D., *Instructor in Contagious Diseases at the Isolation Hospital.*

Harry Mortimer Richter, M. D., *Instructor in Clinical Surgery.*

Henry Edward Sauer, B.S., M.D., *Instructor in Clinical Gynecology*

Walter Steele Barnes, M.D., *Instructor in Operative Surgery.*

George E. Baxter, Ph.B., M.D., *Instructor in General Pathology, Clinical Hæmatology and Clinical Medicine.*

Louis Beck, M.D., *Assistant Demonstrator of Anatomy.*

William Lyman Beecher, Ph.G., M.D., *Instructor in Clinical Dermatology.*

Louis Beehler, M.D., *Assistant Demonstrator of Anatomy.*

Joseph Frank Biehn, M.D., *Instructor in Bacteriology.*

William Sherman Bracken, M. D., *Assistant Demonstrator of Anatomy.*

Joseph Brennemann, M.D., *Instructor in Clinical Pediatrics.*

Franklin K. Burr, M.D., *Instructor in Clinical Laryngology and Rhinology.*

George Bassett Butt, M.D., *Instructor in Clinical Medicine.*

John Gailey Campbell, A.M., M.D., *Instructor in Clinical Medicine.*

Elijah R. Crossley, B.S., M.D., *Instructor in Clinical Pathology.*

William Robert Cubbins, B.S. M D., *Instructor in Clinical Surgery.*

Achilles Davis, Ph. B., M. D., *Instructor in Clinical Medicine.*

George James Dennis, M.D., *Instructor in Clinical Medicine.*

George Boyd Dyche, A.B., M.D., *Instructor in Clinical Medicine.*

Frederick C. Eggert, M.D., *Instructor in Clinical Laryngology and Rhinology.*

Charles Addison Elliott, B.S., M.D., *Instructor in Clinical Medicine.*

David Henry Galloway, Ph.G., M.D., *Instructor in Surgery.*

Harold Kenneth Gibson, M.D., *Instructor in Clinical Medicine.*

Alexander A. Goldsmith, M.D., *Instructor in Pathology.*

Frederick R. Green, A.M., M.D., *First Assistant Demonstrator of Anatomy, and Instructor in Osteology.*

Julius Grinker, M.D., *Instructor in Clinical Neurology.*

William Healy, A.B , M.D., *Instructor in Clinical Gynecology.*

D'Orsay Hecht, B.S., M.D., *Instructor in Clinical Neurology.*

William A. Hillemeyer, M.D., *Assistant Demonstrator of Anatomy.*

Alexander Philip Horwitz, M.D., *Instructor in Clinical Ophthalmology and Otology.*

Charles Mayor Jacobs, M.D., *Instructor in Clinical Orthopedic Surgery.*

Harry Kahn, Phar.M., M.D., *Instructor in Pharmacology, and in Clinical Ophthalmology and Otology.*

Allen Buckner Kanavel, A.B., Ph.B., M.D., *Instructor in Clinical Surgery.*

Charles J. Kurtz, A.M , M.D., *Instructor in Physiology.*

Otis Hardy Maclay, B.S., M.D., *Assistant Demonstrator of Anatomy.*

Charles M. Matter, M.D., *Instructor in Clinical Surgery.*

Thomas Charles McGonagle, M.D., *Instructor in Clinical Pediatrics.*

Albert Earl Mowry, M.D., *Instructor in Clinical Medicine.*

James Mitchell Neff, M.D., *Instructor in Clinical Surgery.*

Rupert Merrill Parker, B.S., M.D., *Instructor in Clinical Surgery.*

Richard Starr Pattillo, M.D., *Instructor in Clinical Ophthalmology and Otology.*

Ernest Ray Reynolds, M.D., *Assistant Demonstrator of Anatomy.*

Alice Pitkin, M.D., *Instructor in Clinical Surgery.*

Ernest C. Riebel, M.D., *Instructor in Clinical Dermatology.*

David Salinger, M.D., *Instructor in Clinical Ophthalmology and Otology.*

George C. Shockey, M.D., *Instructor in Clinical Neurology.*

Morton Snow, M.D., *Instructor in Clinical Pediatrics.*

Herbert Marion Stowe, M.D., *Demonstrator of Operative Obstetrics.*

Hiram Porter Hendricks, *Clerk,*

2431 Dearborn St. (College Building).

STUDENT ASSISTANTS, 1902–1903.

Charles William Brown, Ph.C., *Chemistry.*
Harry Delphos Orr, B.S., *Chemistry.*
Theron James Kinnear, A.B., *Physiology.*
John Dexter Lyon, B.D., *Physiology.*
Glenn Charles Spurgeon, Ph.B., *Physiology.*
Walter Herman Buhlig, S.B., *Pathology.*
Walter Stanley Griswold, B.A., *Pathology.*
Warren Melvin Karshner, B.S., *Histology.*
Alex. C. McKean, *Histology.*
Frank Henry Ellenbaum, Ph.C., *Pharmacology.*

STUDENTS RECEIVING SCHOLARSHIPS, 1902–1903.

Alex Walfrid Anderson, B.S.
Ralph Brayton Bradford, A.B.
William De Kleine, A.B.
Herbert Edward Hall, A.B.
Charles Clinton Hoagland, A.B.
Ray Orvin Hummel, B.S.
Ezra Franklin Mertz, Ph.B.
Ralph Welty Nauss, B. S.
Henry Roscoe Pascoe, A.B.
Arthur Hensley Smith, A.B.

HISTORY.

This Medical School is entitled to the credit of having been the pioneer in the advancement of medical education in this country. It was the first school to take these three most important steps: viz., the enforcement of a standard of preliminary education; adoption of longer annual courses of medical college instruction; the graded curriculum, 1859, by which a definite number of branches are assigned to each year in such natural order that the mastery of one group makes the mastery of the next easier, and accomplishment of the whole more comprehensive and complete.

In the year 1859 the trustees of the Lind University of Chicago organized a medical school as a department of that University. Financial misfortunes befell Lind University, and it was deemed wise that the medical school should effect an entirely independent organization. Accordingly, in 1864, it was organized anew, under the name of the Chicago Medical College. It thus existed until 1869, when it was united with Northwestern University, retaining, however, its old name of Chicago Medical College until 1891, when that name was changed to Northwestern University Medical School.

In 1890 William Deering gave $20,000 towards the purchase of the land on which the School of Medicine is located. In 1894 the same generous benefactor of the University endowed the N. S. Davis Professorship of Physiology. In 1893 Dr. Ephraim Ingals gave the Medical School $10,000 to aid in the construction of the Laboratory Building. The present equipment of the Medical School consists of the Laboratory Building; of Davis Hall, which is the administration building and the home of the South Side Dispensary; and of Wesley Hospital. To these facilities must be added the privilege of clinical teaching in several of the neighboring hospitals. The beautiful new surgical amphitheater just completed at Mercy Hospital enlarges and extends the facilities for clinical teaching in that institution.

BUILDINGS.

THE LABORATORY BUILDING is situated in Dearborn Street, between Twenty-fourth and Twenty-fifth streets; has a frontage of 110 feet, and a depth of 105 feet; is five stories above the basement, and is constructed of cut stone and brick, with terra-cotta trimmings and internal finishing of the best materials and workmanship.

On the first floor are the Amphitheater, Pathological Museum, and Laboratory of Physiology and Biology. On the second floor are the Laboratories of Pathology, Bacteriology, Hygiene, and Clinical Pathology. On the third floor are large laboratories of Histology and Embryology with three smaller rooms for original research. These rooms are equipped with desks, lockers for microscopes, and all necessary apparatus. A large lecture-room, room for chemical and physical apparatus, and the private laboratory of the Professor of Chemistry are on the same floor. On the fourth floor one-half of the entire space is occupied by chemical laboratories for students' practical work, and the other half by the Laboratory of Physiological Chemistry, and of Pharmacology, with smaller rooms for advanced or original work. On the fifth floor is a large dissecting-room, a room for demonstrating surgical operations, and three smaller rooms for special dissections.

The Museum of the College is furnished with preparations and specimens illustrative of normal, pathological, and comparative anatomy.

DAVIS HALL stands beside the Laboratory Building. It was erected in the summer of 1893.

On its first floor are offices and faculty rooms, a large amphitheater, an apothecary's room, an examination room for the director of

the dispensary, and suites of rooms for the dispensary departments of Medicine, Surgery, Orthopedics, and Genito-Urinary Surgery.

On the second and third floors there are smaller amphitheaters, and suites of rooms especially arranged and equipped for the departments of Laryngology, Gynecology, Neurology, Pediatrics, Diet Kitchen, Otology, Ophthalmology, and Dermatology.

On the fourth floor are the library and reading-room and the suite assigned to the Young Men's Christian Association, comprising an assembly-room, and a gymnasium with shower-bath and dressing-room.

ALUMNI LIBRARY.

The Alumni Library of nearly three thousand bound volumes, besides several thousand unbound journals and pamphlets, has been acquired by purchase, by donation from the late Dr. F. P. Peck, from the mother of the late Dr. G. W. Jones, and from students and members of the faculty. It is on the fourth floor of Davis Hall. The library is open from 9 to 5 daily, and is under the immediate care of Miss May T. Hillan, Librarian. The net profits on the sale of all college text-books at the library are devoted to its increase and care. The library is greatly appreciated by students, and is used by an increasing number each year.

The alumni committee in charge of the library includes Professors Webster, Hall, and Edwards, with one member of the class graduating the preceding year. An advisory committee of one student from each class assists the alumni committee in the administration of the library. This method of administration makes the library a co-operative institution, controlled by students and alumni, and not by the University.

Each department is well represented in the library. There is a large number of reference books and dictionaries.

All of the larger systems of Medicine and Surgery are at the command of the student; and all of the more important recent works in all departments are added to the library as soon as they appear.

GYMNASIUM.

A room on the fourth floor of Davis Hall has been set apart for the Gymnasium, and equipped for most of the lighter floor work and for hand-ball. The hand-ball court is especially popular, and is in almost constant use. The brisk gym-

nasium exercise, followed by a shower-bath, has had a marked effect upon the health and good spirits of the student community. Besides hand-ball and regular classes in various exercises there have been organized classes in fencing.

REQUIREMENTS FOR ADMISSION.

Applicants for admission must present diplomas from or certificates of admission to an accredited college, school of science, or of graduation from academies or high schools accredited by this University, or must sustain an examination in the subjects which are required for admission to its College of Liberal Arts. In 1905, in addition to these requirements, students must have had a year's work in Chemistry (equivalent to the first year's Chemistry now offered by this school), and in either French or German of a college grade. Those desiring full information in regard to these examinations are requested to correspond with the Secretary of the Medical Faculty.

Examinations for admission will be held at the College of Liberal Arts in Evanston, June 16 and 17, 1903, and September 22, 23; October 6, at the College of Medicine. By special arrangement examinations may also be held at St. Paul, Minnesota; Denver, Colorado; Omaha, Nebraska; St. Louis, Missouri; Cincinnati, Ohio; Detroit, Michigan; Portland, Oregon; and San Francisco, California. But in all such cases application must be made to the Secretary prior to June 1st.

Students conditioned in entrance requirements must make up these conditions before the beginning of the second year. If they do not, they cannot be admitted as regular students to the second-year course.

Exceptions. Special students not candidates for the degree of Doctor of Medicine will be admitted without the presentation of diplomas and without the examinations mentioned above.

PREPARATION FOR THE STUDY OF MEDICINE.

Students contemplating the study of medicine are urged to take at least two years of work in a college of arts or science before entering the Medical School. The tendency in the leading university medical schools is to demand part of

a college course for admission to the medical courses. It is therefore necessary for those preparing to study medicine to bear this fact in mind. The following should be among the studies pursued:

Modern Languages: German or French, two years.

Chemistry: General, inorganic, qualitative analysis, organic.

Physics: Mechanics, hydraulics, sound, light, electricity.

Biology: Biology of plants, general biology, comparative anatomy, and physiology of vertebrates.

ADMISSION TO ADVANCED STANDING.

Students who have pursued in another institution the following First Year Medical Course, or any part of it, will be admitted to advanced standing in the subjects covered by their official credentials. The Committee on Credentials will pass upon the evidence presented by the student, and have the power to require an examination if the certificates be not satisfactory:

Anatomy, Recitations (64 hours) and Laboratory work (320 hours), covering Osteology, and Dissection of two parts of the human body.

Physiology, Recitation (96 hours) and Laboratory work (72 hours), covering General Physiology of cells and tissues, and the Special Physiology of the circulatory and respiratory systems, including Normal Hæmatology.

Chemistry, Lectures and Demonstrations (96 hours) and Laboratory work (192 hours), covering General Chemistry and Qualitative Analysis, with Organic Chemistry.

Histology and Embryology, Recitations (48 hours) and Laboratory work (192 hours), covering the microscopical anatomy of human tissues and organs and the development of vertebrate embryos.

Pharmacology, Recitations and Laboratory work (64 hours), covering the recognition and study of crude and officinal preparations, prescription writing and compounding.

Students from other medical schools who apply for advanced standing must present to the Committee on Credentials satisfactory evidence for all work in which credit is asked or pass examinations in all of the branches for which they desire credit.

Students from other medical colleges will not be admitted to the senior class.

DEGREES.

Medical students who have a Bachelor's degree in Arts, Science, or Letters can obtain a Master's degree when they graduate in Medicine by complying with the requirements stated on page 143.

The University offers the following combined course which enables a student to obtain the B.S. and M.D. degrees in six years. A diligent student can complete these courses by the time he is twenty-four or twenty-five years old:

COLLEGE OF LIBERAL ARTS.

First Year.—	English Language A, - -	three hours.
	French A or German A, -	four hours.
	General Biology, - - -	four hours.
	Mathematics A, or AB, -	four hours.
Second Year.—	French A, - - - -	four hours.
	Biology (histology), - -	three hours.
	Chemistry A, - - -	four hours.
	Physics, Lectures and Laboratory,	four hours.
	One item of the following four:	
	English Literature A, History,	
	Philosophy A, Political Economy,	three hours.
	Pharmacology (in Chicago), -	two hours.
Third Year.—	Chemistry B, - - -	four hours.
	Philosophy E, - - -	one hour.
	Zoölogy (Physiology), -	four hours.
	Zoölogy, Comparative Anatomy and Embryology, - -	four hours.
	Anatomy (Dissections; Recitations; Osteology, laboratory and recitations in Chicago),	six hours.

MEDICAL SCHOOL.

Fourth Year.—The regular work of the second year in Medicine and Physical Diagnosis VII, 2.

Fifth Year.—The Junior course in the Medical School.

Sixth Year.—The Senior course in the Medical School.

The degree of B.S. is granted at the end of the fourth

year of this combined course and M.D. at the end of the sixth.

Students who enter the College of Liberal Arts with advanced credits in two or more subjects can obtain the A.B. degree in the same way if they prefer it, or have a wider range of electives.

Students of the College of Liberal Arts who have completed the required courses for their degree can elect their senior work in the Medical School.

METHODS OF INSTRUCTION.

This was the first medical school in this country to grade its courses and it has steadily perfected the system of gradations so that the fundamental subjects are studied first, and the superstructural subjects follow, each subject preparing the way for what is to succeed it. The advantage of such a gradation of subjects can only be accomplished by a student attending college for at least eight months consecutively each year and by beginning with the fundamental subjects which are started in the fall semester of each year.

INSTRUCTION is given by *Recitations* for which the student prepares himself by the careful study of an assigned chapter from a text-book; by *Laboratory Exercises* in which the student performs for himself various experiments under the supervision of laboratory assistants; *Demonstrations* in which the professor performs for the whole class or for a section of the class some experiment not well fitted for laboratory exercise, lecturing during the progress of the demonstration; by *Illustrated Lectures*, supplementing the standard text-book; by *Colloquia* or *Conferences* in which students and professor informally discuss announced topics.

The greatest care has been taken to so arrange the course that the studies of the first year shall prepare the student for those which are to follow in the second year and that the first two years which comprise the laboratory courses shall make a broad and substantial foundation for the clinical courses and hospital practice of the last two years.

The studies of the whole course are grouped into departments, the work of each department being graded from the more general and fundamental to the more specialized and advanced. The work in each department is under the complete supervision of the head of the department and is thus unified, and as complete as the time allotted to it will permit.

The work in each department is planned with reference to the work done in all other departments and the greatest care is taken that the work of the different departments shall be so correlated that the student in taking up the work of a new subject shall find himself prepared for that work by the work done in other departments.

The classes are limited in size, which is a matter of very great advantage to a student, giving him the privilege of the personal instruction of the head of each department in all recitation, laboratory, and conference courses. The sections of the class are sufficiently small to give to each student an opportunity to perform for himself every step in the technique of all laboratory and clinical courses, having the advantage of the personal supervision of the head of the department or of an experienced demonstrator throughout these courses.

Clinical Instruction occupies most of the student's time during the last two years and a part of the time during the first and second years. The clinical material is in the greatest abundance and is furnished by the South Side Dispensary, Wesley Hospital, Mercy Hospital, St. Luke's Hospital, Provident Hospital, Cook County Hospital, and the Chicago Lying-in-Dispensary. Some of the hospital and college clinics are attended by whole classes of one hundred or more, but by far the greater number of clinics are open to sections of the class, where twelve to sixteen students receive individual instruction and practice in all phases of physical examination, diagnosis, and treatment. A most important feature of the clinical instruction is found in the bedside hospital clinics where a small group of students accompany the professor through the ward, where they have an opportunity to study the

details of symptoms, diagnosis, and treatment and to follow the cases throughout the progress of disease. The course of bedside clinical instruction is so arranged that each student has at least two periods per week. The hospital beds to which the students thus have access number in the aggregate over five hundred.

OPTIONAL COURSES.

A few optional courses are offered to small classes of students, to whom special laboratory and clinical instruction will be given. In some of these courses a fee will be charged each student for material used by him.

Some of the optional courses are clinical or operative and are naturally taken during the junior or senior years.

SYNOPSIS OF THE MEDICAL COURSE.

Required Courses.	*Optional Courses.*
First Year.	
Chemistry, I, *a*, *b*, *c*, *d*, *e*, *f*.	
Anatomy, II, *a*, *b*, *c*, *d*.	
Histology and Embryology, III, *a*, *b*, *c*.	
Physiology, IV, *a*, *b*, *c*, *d*, *e*.	
Pharmacology, V, *a*.	
Physical Diagnosis, VII, *a*.	
Surgery, XV.	
Second Year.	**Second Year.**
Chemistry, I, *g*, *h*, *i*.	Histology, III, *e*.
Anatomy, II, *e*, *f*, *g*, *h*.	Chemistry, I, *j*.
Physiology, IV, *f*, *g*, *h*, *i*, *j*, *k*.	Bacteriology and Pathology, VI, *k*, *l*, *m*.
Pharmacology, V, *b*, *c*, *d*.	
Bacteriology and Pathology, VI, *a*, *b*, *c*, *d*, *e*, *f*, *i*.	
Physical Diagnosis, VII, *b*, *c*.	
Surgery, XV, *a*.	
Medicine, XVI, *a*, *b*, *c*.	

THIRD YEAR.

Pathology, VI, *g*, *h*, *i*.
Obstetrics, VIII, *a*, *d*.
Dermatology and Syphilology, IX, *a*, *b*, *c*.
Laryngology and Rhinology, X, *a*, *b*, *c*.
Eye and Ear, XI, *b*.
Gynecology, XII, *a*.
Surgery, XV, *b*, *c*, *d*, *e*, *f*, *g*, *h*.
Orthopedic Surgery, XV, *a*, *b*, *c*.
Medicine, XVI, *d*, *e*, *f*, *g*.
Pediatrics, XIV, *a*, *b*, *c*.

FOURTH YEAR.

Obstetrics, VIII, *b*, *c*, *d*.
Eye and Ear, XI, *c*, *d*, *e*, *f*.
Gynecology, XII, *b*, *c*, *d*, *e*, *f*.
Neurology, XIII, *a*, *b*, *c*, *d*, *e*, *f*.
Mental Diseases and Medical Jurisprudence, XIII, *a*, *b*, c.
Surgery, XV, *i*, *j*, *k*, *l*, *m*, *n*, *o*.
Medicine, XVI, *h*, *i*, *j*, *k*, *l*, *m*, *n*.
Pathology, VI, *i*.

THIRD YEAR.

Eye and Ear, XI, *a*.
Pharmacology, V, *e*.
Physiology, IV, *l*, *m*.
Histology, III, *e*.
Chemistry, I, *j*.
Orthopedic Surgery, XV, *d*.
Bacteriology and Pathology, VI, *k*, *l*, *m*.

FOURTH YEAR.

Eye and Ear, XI, *a*.
Pharmacology, V, *e*.
Physiology, IV, *l*, *m*.
Histology, III, *e*.
Bacteriology and Pathology, VI, *k*, *l*, *m*.

DEPARTMENTS.

The work in each department is arranged in chronological order, and in every case begins with the fundamental or general, and passes to the more advanced or special. The student is supposed to take the courses in the order enumerated, though some deviation from this rule may be allowed in certain cases approved by the Faculty.

I. DEPARTMENT OF CHEMISTRY.

The work in this department extends through the freshman and sophomore years and is required of all students. After 1904 the subjects of General Inorganic Chemistry, and Qualitative and Volumetric Analytical Chemistry will be

required for admission to the School. After this date the work now given in the second year will be given in the first.

Much of the work of the courses in Chemistry is given in the laboratories, which are large, well arranged, and well equipped with everything needed for the purposes of instruction. The laboratory of General and Analytical Chemistry for first-year students has a floor space of about 4,500 square feet with accommodations for 128 workers. The laboratory of Physiological Chemistry for second-year students has a floor space of 2,000 square feet with accommodations for 144 men, working in two sections. A third small laboratory affords working room for three or four advanced students on special work.

FIRST YEAR.

(a) General and Inorganic Chemistry. Lectures and demonstrations. 3 times each week with frequent additional quizzes. 1⅓ Semesters.
Professor LONG and assistant.

(b) Organic Chemistry. Lectures and demonstrations. 3 each week. ⅔ of Semester.
Professor LONG.

(c) Elementary Electricity, or the Physics of Medical Electricity. Lectures and demonstrations. 2 each week through ½ Semester.
Professor LONG.

These three didactic courses cover the groundwork which should be required of all students beginning the study of medicine. Instruction is given as far as possible by recitations instead of by lectures, and text-book lessons as assigned for the first course from Long's "Elements of General Chemistry," for the second from Remsen's "Organic Chemistry," and for the third from Ganot's "Physics" or from Thompson's "Elementary Lessons in Electricity and Magnetism." The work in General Chemistry is full enough to give the student a good outline of the subject and supply the necessary theoretical basis for all that is to follow. In Organic Chemistry the main attention is given to general principles and fundamental reactions and types rather than to a study of many compounds. In Electricity enough is given to make the student familiar with the construction and use of batteries, the measurements of currents and resistances, and the important physical, chemical, and physiological effects of the current.

(d) General Experiments. Laboratory course. 3 periods each week through ¾ of a Semester.
Professor LONG, Mr. JOHNSON, and assistants.

(e) Qualitative Analysis. Laboratory course. 3 periods each week through ¾ of a Semester.
Professor LONG, Mr. JOHNSON, and assistants.

(f) Volumetric Analysis. Laboratory course. 3 periods each week through ½ Semester.
Professor LONG, Mr. JOHNSON, and assistants.
In course (d) the students perform the experiments given in Long's "Elements of General Chemistry." In courses (e) and (f) Long's "Analytical Chemistry" is followed as a text-book and guide. The Volumetric Analysis is considered as a necessary part of the work of preparation leading up to the course in Physiological Chemistry of the following year.

(a c) A—General Chemistry, 4 each week. Professor YOUNG, College of Liberal Arts, equivalent to I. (a).

(b, b) B—Qualitative Chemistry continued and Organic Chemistry. Professor YOUNG, 4 each week, College of Liberal Arts. Substitution for I. (b).

SECOND YEAR.

(g) Physiological Chemistry. Lectures and demonstrations. 1 hour each week through the year.
Professor LONG.

In this course which runs parallel with one given in the laboratory, the student is introduced to the study of those compounds which are important in the nutrition or metabolism of the human body. Much attention is given to the explanation of the modern views of ferments and fermentations, with their bearing on digestion problems. The organic chemistry of physiologically important substances is fully considered in this place, so that this part of the course completes work begun in the first year. The work is given by recitation as far as possible, Hammersten's Physiological Chemistry being used as a text-book. The last part of the course is devoted to a discussion of the principles of urine analysis.

(h) Physiological Chemistry. Laboratory course. 2 periods each week, through 1 Semester.
Professor LONG and Mr. JOHNSON.

For this work Long's "Laboratory Experiments in Physiological Chemistry" is employed as a guide. The work covers the preparation and study of important carbohydrates, fats, and protein bodies, the phenomena of digestion, and the preparation and study of digestive ferments, experiments on blood, milk, bile, gastric juice,

and bones, and finally some experiments illustrating the methods of sanitary water examination, and tests of several common food products.

(i) Urine Analysis. Laboratory course. 2 periods each week, through 1 Semester.
Professor LONG and Mr. JOHNSON.

(j) Special work. Laboratory courses. Opportunity is given to second and third year students to carry out investigation in special lines of Physiological Chemistry, and to become more familiar with the application of the spectroscope, polariscope, and other instruments as aids in original study. The more advanced student work for the coming year will be largely in the direction of investigations of new methods of urine and feces analysis.

II. DEPARTMENT OF ANATOMY.

The equipment of the Department of Anatomy has been recently very much enlarged and comprises an embalming laboratory with complete appliances for injecting and preserving anatomical material, a large refrigerator room with a capacity of several hundred cadavers. The Anatomical Laboratory is a large, well ventilated, and well lighted room on the fifth floor of the Laboratory Building, provided with every help, in the way of skeletons, models, and charts, usually used in such a laboratory. There is a well furnished osteological laboratory and museum. Each student is provided with a complete skeleton.

The instruction in this department is similar in plan to that given in the anatomical department of the University of Edinburgh. The course in Anatomy is chiefly a laboratory course with the human subject and with models and charts always before the student. Valuable use is made also of some of the lower animals in the teaching of technique and for purposes of comparison.

The instruction begins with an introductory course of lectures and demonstrations in which the whole field of descriptive anatomy is covered in a most general way, dealing with fundamental facts only. The plan of structure of the body is outlined and the systems of organs are briefly de-

scribed. The circulatory system, for example, including heart and principal arterial and venous branches, is described and amply illustrated. The nervous system with the principal spinal nerves and plexuses is similarly treated.

This introductory course is accompanied by laboratory work on the dissection of the dog. Large animals are procured and they are properly embalmed and injected. The student learns upon this material the technique of dissection and in his study gives especial attention to the structure and relations of the viscera of the thorax and abdomen to the sympathetic nervous system, to the circulatory system, and to the spinal nervous system. The object of the work upon the viscera and sympathetic nervous system is to prepare the student for the work of the Department of Physiology which later in the year deals with the circulatory, respiratory, and digestive systems. The object of the systemic dissection of circulatory system and spinal nerves is to give the student a clear idea of these structures as systems, so that he will be able later to carry in his mind the double relation of each structure: (1) Its part in a system (e. g., vascular, nervous, etc.), and (2), its topographical relation to other structures.

The student begins his course in human anatomy not with the study of bones, but with the study of the human body as a whole. The work in the Anatomical Laboratory begins with the study of the skin, mapping out the various areas, followed by a study of the subcutaneous fasciæ with their vessels and nerves. This is followed by a careful dissection and study of the muscles and the deeper vessels and nerves. The structures are studied not only in their relations one to the other but also in systems. This plan gives the student a clear idea not only of the topographical anatomy of especial value in surgery, but also of systemic anatomy which can be applied in all of his practice, perhaps more especially in medicine.

The student is expected to describe the structures in his own language rather than to memorize the description of the text-books. Each student is asked to make free-hand draw-

ings, in colors, of what he finds in his dissections. This saves time in reviews and serves to fix the mental picture of the dissection.

A complete skeleton is offered each student when he begins dissecting; he outlines every part dissected in relation with the bones, and keeps the bones with him through the period of dissecting. The regular laboratory course on Osteology, beginning with the bones belonging to the parts dissected, is taken up after the dissection is finished.

Besides reciting to the laboratory demonstrators upon the points dissected, each student attends two review quizzes each week, where every feature of the laboratory work is discussed in detail, where obscure points may be explained and illustrated, and where points of especial importance may be emphasized.

During his first year the student dissects the leg and the arm, during the second year the head and neck, and the viscera.

The course of the second year comprises, besides the dissection which occupies one semester, a course of thirty-two lectures on Applied Anatomy. This course reviews and emphasizes the points of topographical anatomy and surgical landmarks. Considerable time is given to Splanchnology, with which the student is already quite familiar through his dissections.

FIRST YEAR.

(a) Introductory course in General Anatomy. Lectures and demonstrations. 3 each week. ⅛ Semester.
Professors BURNS and MIX.
4 3-hour periods each week. ⅛ Semester.
Dr. GREEN and assistants.

(b) Human Dissections. 4 3-hour periods each week. 1 Semester.
Professor BURNS, and Dr. GREEN, and assistants.

(c) Recitations on laboratory work. 2 hours each week 1 Semester.
Professor MIX.

(d) Human Osteology. Laboratory work accompanied by

quizzes. 4 3-hour periods each week. ¼ Semester.
Recitations, 3 hours each week. ¼ Semester.
Professor BURNS and assistants.

SECOND YEAR.

(e) Neurology (A). Laboratory work, demonstrations and lectures on the Gross Anatomy of the Brain and Spinal Cord. 2 periods each week. ½ Semester.
Professor MIX.

(f) Neurology (B). [See also III. (e).] Microscopical Anatomy of the Spinal Cord and Brain. 2 hour laboratory periods each week. ½ Semester.
Professor HILL.

(g) Human Dissections. The Head and Neck, and the Viscera, with laboratory recitations on the points dissected. 4 3-hour periods each week. 1 Semester.
Professor BURNS, and Dr. GREEN, and assistants.

(h) Applied Anatomy, with especial reference to Surgical Landmarks, Topographical Anatomy, and Splanchnology.
Professor MIX.

III. DEPARTMENT OF HISTOLOGY AND EMBRYOLOGY.

The available room and equipment for this department has recently been enlarged and very much improved. The laboratories are on the third floor, affording the best of light, and fitted up with tables, lockers, and modern apparatus both for the individual student and the general class work. The department now affords a large general laboratory, a preparation room, and two private rooms for assistants and instructor.

Instruction is offered both in Splanchnology and in the Normal Histology of tissues and organs. Each student has the use of a compound microscope, dissecting microscopes, and all necessary apparatus for the manipulation and preparation of histological material. The courses embrace instruction in preparation, section cutting, staining and mounting of normal specimens, and their subsequent study under the microscope. The general plan pursued in the department is (1) a short informal daily lecture, by the instructor, upon the work of that day, (2) the laboratory work follows, each student makes his own observations and records his own experiences with the

tissues in hand, (3) the class, as a whole, is held to a general quiz from assigned lessons in some standard text, The salient points, as well as minute structures, of splanchnology and histology are thus brought before the student at least three times, the laboratory work being always in advance of the class work.

In Embryology, the chick is taken as a basis for laboratory study, with collateral work upon both lower and higher forms. The course begins with a study of the different forms of cleavage, followed by the study of the early appearance of the embryo, and the histogenesis and morphogenesis of tissues and organs. Free-hand drawings are daily required of each student.

The importance of a thorough knowledge of the histology and embryology of each organ, as a preparation to the subsequent study of Physiology, Pathology, Anatomy, and Clinical Diagnosis, as well as its value to the general practitioner, is made a part of the daily exercise.

All available assistance and encouragement is offered to the students prepared to do research.

FIRST YEAR.

(a) General and Special Histology and Embryology. Recitations. 2 first quarter, 1 each week afterward.
Dr. MENGE.

(b) Histology, General and Special. Laboratory. A study of the Normal Histology of Tissues and Organs, but not including the Brain and Spinal Cord.
Two periods each week of 3 hours. 1½ Semesters.
Professor HILL.

(c) Embryology. Laboratory work, 2 periods per week of 3 hours each. ⅓ Semester.
Professor HILL.

(c, c) A—General Biology. 4 each week.
Professor LOCY.

(c, c, c) C—Cytology and Histology. 3 each week.
Professor HILL.
College of Liberal Arts, equivalent to III. (a), (b), (c).
Summer courses III. Embryology daily.
Professor HILL and Mr. KARSHNER.

SECOND YEAR.

(d) Microscopical Anatomy of the Spinal Cord and Brain. [See II. (f).] 2 laboratory periods each week. ½ Semester.
Professors HILL and MIX.

SECOND, THIRD, AND FOURTH YEARS.

(e) Special Problems in Histology and Embryology (elective).
Professor HILL.

IV. DEPARTMENT OF PHYSIOLOGY.

The equipment of this department comprises a general laboratory, 40 by 70 feet, two special laboratories, an instrument room, a library, shop, preparation room, and an animal house. The instrumentarium includes microscopes, kymographs, electrical apparatus, sphygmographs, cardiographs, stethoscopes, manometers, receiving and recording tambours, stethographs, hæmatocrits, hæmometers, hæmocytometers, and optical apparatus. Laboratory sections of the class are divided into groups of two to four students each, each group having a complete set of apparatus and performing the experiments together.

The instruction in this department is based upon the laboratory work and upon demonstrations. In the laboratory each student demonstrates for himself fundamental laws of physiology, and observes for himself the phenomena upon which these laws are based. The physiological demonstrations usually present experiments too difficult for the student to perform alone. The laboratory work with the demonstrations form an experimental basis for the science of Physiology, which is presented systematically in the recitation course which accompanies the experimental courses. At no time during the course is the fact lost sight of that the student is preparing for the practice of medicine. Most of the laboratory experiments are chosen and arranged with the special view of giving the student facts and technique which he can apply later in his clinical work.

FIRST YEAR.

(a) General Physiology, Cellular Biology, and the Physiology of Muscle and Nerve-tissue, and of the Muscular System. Lectures and demonstrations, 3 each week, and laboratory work, 1 period each week. ¾ Semester.
Professor HALL and assistants.

(b) Special Physiology. The Physiology of Circulation and Respiration. Recitations and demonstrations, 3 periods each week. ¾ Semester.
Professor HALL and assistants.

(b, b) IV. (1). Summer course, daily four weeks.
Dr. KURTZ.
Equivalent to IV. (b).

(c) Hæmatology. The Physiology of the Blood. Laboratory work, 2 periods each week. ¼ Semester. Recitations and demonstrations, 3 each week.
Professor HALL and Dr. KURTZ.

(c, c) IV. (2). Summer course, daily four weeks.
Dr. KURTZ.
Equivalent to IV. (c).

(d) The Physiology of Reproduction. Lectures and demonstrations, 3 each week. ⅛ Semester.
Professor HALL.

(e) Nutrition, Chemistry of the Animal Body, and Chemistry of Food and Food Stuffs. Recitations and demonstrations, 3 each week. ⅛ Semester.
Professor HALL.

(e, e) D—Physiology. 4 each week.
Professor LOCY, College of Liberal Arts.
Equivalent to IV. (a), (b), (c), (d), and (e).

SECOND YEAR.

(f) Nutrition. The Chemistry of Digestion. Demonstrations, 2 each week. ¼ Semester.
Professor HALL.

(g) Nutrition. Metabolism, Animal Heat and Excretion. 2 each week. ½ Semester.
Professor HALL.

(h) Physiology of the Central Nervous System. Lectures, demonstrations, and recitations, 2 each week. ¼ Semester.
Professor MIX.

(i) Physiology of the Special Senses. Recitations, demonstrations, and Laboratory, 4 each week. ¼ Semester.

(j) Normal Ophthalmoscopy and Skiascopy. Laboratory work. Each student, 3 periods.
Dr. R. S. PATTILLO.

(k) Pharmacology. The Physiological Action of Drugs. Laboratory work, 2 periods each week. ½ Semester. (See V, b.) Professor MILLER.

THIRD AND FOURTH YEARS.

(l) Medical Anthropometry (elective).
Professor HALL.

(m) Special Problems (elective).
Professor HALL.

V. DEPARTMENT OF PHARMACOLOGY.

This department has a complete laboratory equipment, furnishing every aid toward the acquirement of a systematic knowledge of medicines, including: (1) natural and laboratory products; (2) their actual manufacture; (3) the demonstration of their physiological actions on the lower animals by modern scientific methods and apparatus; (4) thorough didactic instruction covering the physiological action in detail on the various systems of the human body of the more important remedies; and (5) carefully recognized therapeutic indications governing their employment in disease.

The laboratory cabinets contain all drugs and chemicals with the preparations of any recognized value.

Each student prepares and retains a carefully classified cabinet of sixty important drugs, manufactures specimens of the principal pharmacopeal preparations, has every opportunity to gain an intimate knowledge of all specimens, and studies in detail the effect of important medicines on the lower animals. Each student writes fifty prescriptions subject to rigid inspection and correction for as many hypothetical cases. The student is given an opportunity to gain experience in practical dispensing pharmacy in the drug-room of the South Side Dispensary.

The required work covers two years. In the third and fourth years elective research work on the physiological action of drugs is open to a limited number of students.

FIRST YEAR.

(a) Pharmacognosy and Pharmacy. (Operative.) Laboratory work. 4 hours each week. 1 Semester. Professor MILLER.

SECOND YEAR.

(b) Pharmacology. Experimental. Laboratory work. 2 hours each week. ½ Semester. Professor MILLER.

(c) Pharmacology. Recitations. 2 each week. 1 Semester. Professor MILLER.

(d) Pharmacy. Dispensing. 48-hour service in Pharmacy of South Side Dispensary. Under supervision of Professor MILLER and Mr. THATCHER.

THIRD AND FOURTH YEARS.

(e) Research work on Physiological Action of Drugs. (Elective.)

VI. DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY.

During the past year a complete reorganization of the departments of Pathology, Clinical Pathology, Bacteriology, Etiology, and Hygiene has been effected.

Four spacious and well lighted laboratories, occupying the whole second floor of the main College building, have been newly furnished with all conveniences and equipped in a most liberal manner with new microscopes, microtomes, and all modern apparatus and appliances for general class-work as well as for individual research.

On the third floor of the main College building a number of small rooms have been set apart in which advanced students or physicians will find excellent facilities for research work.

The Pathological Museum of the School is on the first floor, and contains a very complete and excellent collection of pathological specimens, preserved in natural colors, for instruction and practical exercises in Pathological Anatomy.

The department is supplied with a valuable reference library.

The number of public autopsies, held in the large amphitheater, is ample, and together with the fresh material obtained from private and outside post-mortems, many of which are

attended by the sections in Clinical Pathology, furnish abundant opportunity for the study of Morbid Anatomy and Histology.

A new Bausch and Lomb electric lantern for direct projection by the microscope of histopathological slides as well as lantern slides has just been added to the armamentarium of the department.

The principal method of instruction consists of practical exercises in the various laboratories, individual instruction, and laboratory practice through the whole year.

SECOND YEAR.—*First Semester.*

(a) Bacteriology. Lectures and demonstrations. 2 hours each week. 1 Semester.
Professor ZEIT.

(b) Bacteriology. Laboratory work. 3 3-hour periods per week.
Professor ZEIT and Dr. BIEHN.

(b, b) Summer Course VI. 3 days weekly. Equivalent to VI. (a) and (b).
Professor ZEIT and Dr. BIEHN.

Second Semester.

(c) General Pathology. Laboratory work. 3 2-hour periods each week.
Professor ZEIT and Dr. GOLDSMITH.

(c, c) Summer courses, daily. Equivalent to VI. (c).
Professor ZEIT and assistants.

(d) Recitations on principles of General Pathology. 2 hours a week. 1 Semester. The recitations cover the subjects studied in the laboratory. Dr. BAXTER.

(e) Etiology. 2 lectures a week during February.
Professor ZEIT.

(f) Hygiene. Recitation course of 2 hours a week for three months (March, April, and May). 2 lectures each week.
Dr. DYCHE.

THIRD YEAR.

(g) Special Pathology. Practical exercises in diagnosis of Morbid Anatomy and Histology of special organs. 2 hours a week, both Semesters.
Professor ZEIT and assistants.

(h) Clinical Pathology.

The Clinical Laboratory is fitted with a complete armamentarium for modern laboratory diagnosis and research work. It is essentially the clinician's laboratory, and the vast material from various hospitals, the college, and dispensary clinics, is here examined and the findings reported to the department sending specimens or patients.

In the Clinical Laboratory the student is made to apply his resources and knowledge gained in the Physiological, Chemical, Pathological, and Bacteriological laboratories, and to apply the same to actual cases, such as the various college and dispensary clinics may furnish. The junior class is divided into eight sections of from twelve to eighteen students, and each section spends four weeks, three hours a day, in the practical application of those diagnostic methods of scientific medicine which will most likely be in daily use by the student after graduation.

The nature of the work in the Clinical Laboratory is that of actual practice. In the various laboratory courses of the freshman and sophomore years the student has been taught the whole subject, usually for the sake of completeness. All material has been prepared for him. He does not have to search for a certain reaction, lesion, or germ. He finds everything ready. No search is required. The teacher has prepared it all for him.

In the Clinical Laboratory the conditions are just reversed. He receives only "unknown" and is now placed before the necessity of employing in a practical way his resources, gained during his former years of laboratory study.

Practical exercises are held daily. The material from the different clinics is used and supplemented whenever necessary by material kept ready for the various exercises in Clinical Microscopy and to illustrate phases of surgical pathology or bacteriology and gynecological pathology.

Daily conferences are held and individual efficiency ascertained by exercises and quizzes. A laboratory note-book is kept by each student, containing the personal observations on all material submitted for examination in laboratory diagnosis.

The laboratory is open all day for the accommodation of clinicians and students. The regular section hours are from 1 to 4 daily.

The laboratory work includes the following subjects:

I. CLINICAL BACTERIOLOGY.
II. HÆMATOLOGY.
III. DIAGNOSIS OF TUMORS AND CURRETTEMENTS.
IV. URINE ANALYSIS.
V. EXAMINATION OF STOMACH CONTENTS AND FÆCES.
VI. POST-MORTEM TECHNIQUE.

The sections attend private post-mortems and individual members are assigned viscera for careful study and description of morbid anatomy and histology.

VII. PATHOLOGICAL LABORATORY TECHNIQUE.

Professor ZEIT and DR. CROSSLEY.

(h, h) Summer course. Daily.
Professor ZEIT and Dr. BIEHN.
Equivalent to VI. (h).

SECOND, THIRD, AND FOURTH YEARS.

(i) Public autopsies with practical instruction in technique and diagnosis are held in the large amphitheater of the main building, as announced on bulletin board, and students of third and fourth years are excused from conflicting college duties to attend.
Professor ZEIT and assistants.

(k) Special advanced work in Pathology. (Elective.)
(l) Special advanced work in Bacteriology. (Elective.)
(m) Special advanced work in Clinical Pathology. (Elective.)

VII. DEPARTMENT OF PHYSICAL DIAGNOSIS.

The work of this department comprises didactic lectures, Practice in Physical Examinations of the Normal Body, Physical Diagnosis Clinics, and Special Elective Work in which students read and discuss theses on assigned cases which have been under observation for at least four weeks.

FIRST YEAR.

(a) Physical Examination of the Normal body. Laboratory work. 8 periods. 2d Semester.
Drs. CHESTER, ELLIOTT, and CAMPBELL.

(a, a) VII. (1). Summer course.
Dr. ELLIOTT.
Equivalent to VII. (a).

SECOND YEAR.

(b) Theory and Practice of Physical Diagnosis. Lectures, 2 each week.
Professor WEBSTER.

(b, b) VII. (2). Summer courses.
Dr. ELLIOTT.
Equivalent to VII. (b).

(c) Physical Diagnosis Clinic.
Professor WEBSTER.
In course (c) cases chosen from the large Dispensary Clinics are brought before the class, and are presented with especial reference to diagnosis. Each student is expected to keep a record of cases presented, to group and co-ordinate all cases of the same class, and to present, at the end of the year, the notes, with a thesis on some one group of cases.

VIII. DEPARTMENT OF OBSTETRICS.

The teaching in this department is clinical, didactic, by demonstrations, by individual exercise on the manikin, and by recitations and conferences in large and small classes.

Obstetric cases of Mercy, Provident, and Wesley Hospitals are used for teaching. The senior students are eligible to service in the Chicago Lying-in Hospital and Dispensary. Here each one sees and personally conducts six to ten labors in the homes of the patients, and in the hospital under the guidance of the assistant physicians. The pathological material is abundant.

THIRD YEAR.

(a) The Physiology of Pregnancy, Labor, and the Puerperium. 2 recitations each week throughout the school year.
Professor REED and Dr. MONASH.

(a) See Course (d).

FOURTH YEAR.

(b) The Pathology of Pregnancy, Labor, and the Puerperium. 2 lecture recitations each week through the school year.
Professor DE LEE.

(c) Individual Practice on the Manikin. 16 exercises per each group of 6 students.
Dr. STOWE and Dr. ROEHLER.

(d) Students of both the third and fourth years attend obstetric demonstrations and labors conducted by Professor DE LEE and assistants in the amphitheater of Wesley Hospital. Attendance on six labors is necessary for graduation.

IX. DEPARTMENT OF DERMATOLOGY AND SYPHILOLOGY.

The clinical material in this class of diseases is exceedingly abundant and opportunity is given to every student to examine each case personally. The most instructive cases are carefully selected for the general weekly clinic, when they are demonstrated and exhaustively discussed by the Professor.

Especial attention is paid to the differential diagnosis, histopathology, and treatment of the more common dermatoses usually met with by the general practitioner.

The subject of syphilis, with the exception of visceral and nervous lesions, which come under the jurisdiction of other departments, is fully covered clinically and in a systematic lecture course, due attention being also given to the sociological aspect of this disease. Stereopticon demonstrations of the histology and histopathology of the skin will be given throughout the course, as will also exhibitions of the newer electrical therapeutic agents, the Röntgen ray, and high frequency apparatus.

THIRD YEAR.

(a) Dermatology, Syphilology, and Gonorrhœa. Lectures and demonstrations. 2 periods each week. 1 Semester.
Professor ZEISLER.

(b) Clinical lectures 1 period each week.
Professor ZEISLER.

(c) Dispensary clinic daily for four weeks.
Professor PARDEE.

(c, c) IX. (b). Summer course. Equivalent to IX. (c).

(d) Recitation course on selected subjects once weekly. 1 Semester.
Professor PARDEE.

X. DEPARTMENT OF LARYNGOLOGY AND RHINOLOGY.

This department is furnished with specially constructed individual stalls and electric lights for the training of divided classes of students in the technique of examination and treatment of the nose and throat, following the method of arrangement in vogue at Vienna. A dark-room, for translumination tests, and a dressing-room are attached, and the suite connects with a clinical amphitheater.

Preparation for work in this department is provided by the work in the Physiological Department on the larynx, in which a careful dissection of this organ is made and a study of its cartilages, muscles, and mucous membrane.

THIRD YEAR.

(a) Laryngology and Rhinology. Lecture 1 hour each week. 1 Semester.
Professor CASSELBERRY.

(b) Clinical Lecture. 1 hour each week.
Professor CASSELBERRY.

(c) Dispensary Clinics, individual instruction in technique. 6 periods each week for 4 weeks.
Professor CASSELBERRY, assisted by Drs. MENGE, EGGERT and BURR.

(c, c) X. (b).—Summer course. Equivalent to X. (c).

XI. DEPARTMENT OF OPHTHALMOLOGY AND OTOLOGY.

Preparation for the special work of this department is provided by the courses which the second-year students receive in the gross and minute Anatomy and Physiology of the Eye and Ear.

In the Physiology of the Special Senses each student makes a careful dissection of the eye and its appendages. He determines the refractive index of various media, he determines the focal distance of lenses, and has practice in perimetry, in determination of normal vision, and in the detection and determination of the simpler errors of refraction. The course in Normal Ophthalmology and Skiascopy comprises work done with the retinascope and ophthalmoscope upon artificial eyes and upon the normal human eye.

THIRD YEAR.

(a) Ophthalmoscopy, Otoscopy, and Refractive Work. (Elective in either third or fourth year.) 1 laboratory period each week. ½ Semester.

(b) Clinical Lectures and Demonstrations. St. Luke's Hospital. 1 period each week.
Drs. ALLPORT and WOOD.

FOURTH YEAR.

(c) Ophthalmology and Otology. The Pathology, Therapy, Surgery, and Hygiene of the Eye and Ear. 1 Lecture each week.
Professor GRADLE.

(d) Clinical Lecture at College. 1 each week.
Professor GRADLE.

(e) Clinical Lecture to section of class at Mercy Hospital. 1 each week.
Professor STARKEY or Dr. MANN.

(f) Dispensary Clinics, in which small classes of students receive individual instruction in examination, diagnosis, and treatment of cases. 6 periods per week for 4 weeks.
Drs. MANN, SALINGER and PATILLO.

(f, f) XI.—Summer course. Equivalent to XI. (f).

XII. DEPARTMENT OF GYNECOLOGY.

Instruction in this department comprises recitations, dispensary clinics, conferences, and surgical clinics. The clinics are given in Wesley Hospital, Mercy Hospital, St. Luke's Hospital, and to divided classes in the College Dispensary. All students are required to make themselves proficient in general gynecological diagnosis and treatment, and with this object in view, are brought into close personal relations with a large number and variety of cases in the dispensary. Not less than an average of three operative clinics a week are given in different hospitals in the immediate vicinity of the College. These clinics afford the student abundant opportunity to familiarize himself with all the major and minor operations of gynecology. Not only a theoretical appreciation, but a practical working knowledge of gynecology is a prerequisite to graduation. The following courses will be offered.

THIRD YEAR.

(a) Operative Clinics and Lectures at St. Luke's Hospital. 1 period of 2 hours each week.
Professors DUDLEY, WATKINS, and FRANKENTHAL.

FOURTH YEAR.

(b) General Gynecology. Recitations. 2 each week. 1½ Semesters, October to April.
Drs. GILLMORE, SAUER, HEALY, and DAVIES.

(c) Operative Clinics and Lectures at Wesley Hospital. 1 period of 2 hours each week throughout the year.
Professor DUDLEY, October to April. Professors F. T. ANDREWS and WATKINS, April to October.

(d) Operative Clinics and Lectures at Mercy Hospital. 1 each week throughout the year.
Professors F. T. ANDREWS and WATKINS.

(e) Dispensary Clinics. Daily to divided classes. Each fourth-year student is required to attend for 4 weeks.
Professors WATKINS and F. T. ANDREWS, and Drs. SAUER, GILLMORE, DAVIES, and HEALY.

(e, e) XII.—Summer course. Equivalent to XII. (e).

(f) Gynecological Clinics to section of the senior class. Once each week. Provident Hospital.
Professor WATKINS.

In addition to what has been set forth in the above statement additional courses from time to time will be arranged.

XIII. DEPARTMENT OF NEUROLOGY.

Teaching in this department is done by lectures, recitations, and clinics in the College and Dispensary, and by clinics in the hospitals.

FOURTH YEAR.

(a) Diseases of the Nervous System. 1 lecture each week. 1 Semester.
Professor CHURCH.

(b) Clinical Lecture each week. 1st Semester.
Professor PATRICK.

(c) Clinical Lecture each week, with especial reference to hospital cases. Second Semester.
Professor CHURCH.

(d) Recitations. Text-book assignments and reviews of clinical and didactic lectures. 1 hour each week. 1 Semester.
Professor MIX.

(e) Dispensary Clinics. 6 periods each week. 4 weeks. Professor MIX, and Drs. GOWEN, GRINKER, HECHT and SHOCKEY.

(e, e) XIII. (b).—Summer course. Equivalent to XIII. (e).

(f) A Weekly Ward Visit at Wesley Hospital. Professor CHURCH.

SUB-DEPARTMENT OF MENTAL DISEASES AND MEDICAL JURISPRUDENCE.

(a) Mental Diseases. 1 Lecture per week. ½ Semester. Professor CHURCH.

(b) Medical Jurisprudence. 1 Lecture per week. ½ Semester. Professor CHURCH.

(c) Recitations. Reviews of clinical and didactic lectures. 1 each week. 1 Semester. Professor MIX.

XIV. DEPARTMENT OF PEDIATRICS.

It is the plan of this department to make its instruction chiefly clinical and personal.

THIRD YEAR.

(a) Recitations. 1 period each week. 1 Semester. Professor WALLS.

(b) Dispensary. Children's Clinic. 6 periods each week. 4 weeks. Professor WALLS, and Drs. MCGONAGLE, BRENNEMANN and SNOW.

(b, b) XIV. (a).—Summer course. Equivalent to XIV. (b).

(c) Clinical Lecture. 1 period each week. Professor WALLS.

The most interesting of the patients attending the dispensary clinics are reserved for the weekly college clinic. Required of juniors, open to all seniors.

XV. DEPARTMENT OF SURGERY.

A systematic graded course is offered in Surgery. To interest the student in Surgery at the outset of his professional work, a course is given in the first year by Dr. Allen B. Kanavel, assisted by Dr. James B. Ross, in the application, upon plaster models and cadavers, of roller bandages, casts, splints, extensions, etc.

During the second year, the Department of Pathology and Bacteriology gives such instruction as forms for the student a foundation for the study of the theory of surgery.

During the second semester of the same year, Dr. Frederick A. Besley conducts a recitation course in General Surgery.

Professors Plummer and Schroeder instruct the juniors in Regional Surgery by means of a thorough recitation course maintained throughout the entire year.

A laboratory course of Operative Surgery upon the cadaver is given by Professor Plummer, with especial reference to Regional Anatomy, in the same year. Dr. H. M. Richter conducts a laboratory course for juniors in Operative Surgery upon the lower animals.

Junior students are given the privilege of attending at St. Luke's Hospital the surgical clinics of Professor Owens and his associates, at Mercy Hospital the surgical clinics given by Professor Murphy, at Wesley Hospital the clinics given by Professors Schroeder and Plummer.

Sections of the senior class attend the surgical clinics at Provident Hospital given by Professor Schroeder; and those given at Mercy Hospital by Professors Andrews and Morgan. The whole senior class attends Professor Murphy's surgical clinics at Mercy Hospital.

The Surgical course, beginning in a drill upon Surgical Pathology and Technique, is fittingly rounded out and finished with an advanced course at Wesley Hospital, under Professor Van Hook, one of the two weekly clinics being devoted to operations, and the other to surgical diagnosis, prognosis, and the principles of surgical practice.

FIRST YEAR.

Preliminary Surgery. Surface Landmarks and Bandaging. 1 each week. 1st Semester.

SECOND YEAR.

(a) Recitations on Surgery. 3 each week. March, April, May.
Dr. Besley.

THIRD YEAR.

(b) Dispensary Clinics in General Surgery. Individual instruction in divided classes. 6 each week for 4 weeks.
Doctors RICHTER, MORF, MATTER, and KANAVEL.
Dispensary Clinics in Genito-Urinary Surgery. Individual instruction in divided classes. 6 each week for 4 weeks.

(b, b) XV. (c).—Summer Course. Equivalent to XV. (b).

(c) Operative Surgery. Laboratory. Operative Work on Cadaver. 1st Semester. 3 periods each week. 4 weeks.
Professor PLUMMER.

(c, c) XV. (d).—Summer Course. Equivalent to XV. (c).

(d) Experimental Operative Surgery upon Dogs. 2d Semester. 3 periods each week. 4 weeks.
Doctors RICHTER and BESLEY.

(e) Lectures and Recitations on Surgery. 2 each week.
Professors PLUMMER and SCHROEDER.

(f) Clinical Lectures in Wesley Hospital Amphitheater. 1 period of 2 hours each week.
Professors PLUMMER and SCHROEDER.

(g) Clinical Lecture in Mercy Hospital Amphitheater. 2 periods of 2 hours each week.
Professor MURPHY, assisted by Dr. NEFF.

(h) Clinical Lecture at St. Luke's Hospital. 1 each week.
Professor OWENS, and Drs. ALLPORT, McARTHUR, and HARRIS.

FOURTH YEAR.

(i) Clinical Lectures on General Surgery. 2 hours each week.
Professor VAN HOOK.

(j) Surgical Clinic Lecture in Wesley Hospital Amphitheater. 1 period of 3 hours each week.
Professor VAN HOOK, assisted by Doctors RICHTER, BESLEY, MORF, MATTER, GALLOWAY, and PITKIN.

(k) Clinical Lecture in Mercy Hospital Amphitheater. 2 periods of 2 hours each week.
Professor MURPHY, assisted by Dr. NEFF.

(l) Clinical Lecture in Mercy Hospital Amphitheater. 1 each week.
Professor E. W. ANDREWS and assistants.

(m) Clinical Lecture to section of class, Mercy Hospital. 1 each week.
Professor MORGAN.

(n) Surgical Clinic to section of class, Provident Hospital. 1 each week.
Professor SCHROEDER.

(o) Weekly Ward Visits at Wesley, Mercy, and Provident Hospitals.
Professors VAN HOOK, MURPHY, ANDREWS, MORGAN, PLUMMER, and SCHROEDER.

(o, o) XV. (e).—Summer Course. Equivalent to XV. (o).

DEPARTMENT OF ORTHOPEDIC SURGERY.

The instruction in this department is based upon the clinical material. The abundant material of the dispensary clinic furnishes a sufficient range of cases to permit a fairly complete presentation of the whole subject of Orthopedics, with the great advantage of illustrating each subject with one to several cases.

THIRD YEAR.

(a) Recitation Clinical Lecture in Orthopedics. 1 each week.
Professor RIDLON.

(b) Dispensary Orthopedic Clinics before small classes. 3 each week for 4 weeks.
Doctors JACOBS and BRISLEN.

(b, b) XV. (b).—Summer Course. Equivalent to XV. (b).

(c) Hospital Clinics and Operative Clinics will be given at St. Luke's Hospital and Wesley Hospital as the material presents.
Professor RIDLON.

(d) Selected students may receive personal training at the Home for Destitute Crippled Children in operative technique, ordering and adjustment of braces, application of plaster of paris dressings, and in the selections of materials and details of manufacture of orthopedic appliances. (Elective.)
Professor RIDLON.

XVI. DEPARTMENT OF MEDICINE.

Instruction in medicine is begun in the first year by a thorough course in Physical Diagnosis, beginning with laboratory work upon the normal subject and illustrated by typical cases from the clinics. This course is continued through the

second year, as Physical and Clinical Diagnosis, presented in lectures and demonstrations, and is amply illustrated in a college clinic, given once each week to this class.

In the last semester of the sophomore year a recitation course in medicine is begun. It is ended with the completion of the first semester of the junior year. In this way the students are given a rapid review of the whole field of medicine before they come to the large amount of clinical work of the last two years of their course.

During the junior year a general hospital clinic is given throughout the year at St. Luke's Hospital, and one general clinic at the College on ambulatory cases. A general clinic is also given in pediatrics and dermatology each week, and clinics in both subjects to groups of eight or ten students for four weeks consecutively.

An important feature in the medical instruction in the junior year is the work in the medical department of the South Side Dispensary. Small sections of eight to ten students are assigned to a service of five weeks. During this service each student has an opportunity to receive personal instruction in the application of his previous year's work in physical diagnosis, in the methods of differential diagnosis, in symptomatology, in therapeutics, and in prescription writing. This personal contact with patients and individual opportunity to put into practice the didactic and clinical instruction of the various departments, has always been a leading feature in this institution.

In the senior year the lecture course, two hours a week, is continued upon selected subjects. Three general clinics are given each week at Mercy Hospital and two at Wesley and one at the College. The students are divided into small groups and are taken each day through the wards of the hospitals so that they can watch the effect of medicines and the progress and course of diseases for four weeks at a time under as many different instructors. In these ways students are constantly brought into immediate contact with patients and guided in their examination by the chiefs of clinics. Even in many of

the general hospital clinics students are taken into the wards to the bedside of the sick.

The general college clinics are given by different teachers in each class. Small groups of students receive special instruction for four weeks consecutively in nervous diseases and also attend the general clinics on neurology.

All the methods of clinical investigation are repeatedly illustrated. The opportunities offered by the Laboratory of Clinical Pathology are of the utmost importance, and supplement the clinical work in medicine and surgery.

The medical teaching of the senior year is chiefly clinical. The study of medicines and their mode of action is begun before clinical teaching is taken up, as those subjects must be understood before prescriptions for the sick can be comprehended. For the same reason general pathology is taken in the second year, and in the third special pathology is taken up while the recitation course in medicine is being pursued.

The object is to introduce first the most fundamental subjects which are tributary to medicine, and end the course with as many practical clinical demonstrations as possible.

Medical specialties, such as pediatrics and nervous diseases, are given towards the end of the course.

FIRST YEAR.

VII. (a).—Physical Examination of the Normal Body. Laboratory work. 8 periods, 2d Semester.
Pathological conditions, illustrated by clinical cases.
Drs. CHESTER, ELLIOTT, and CAMPBELL.

SECOND YEAR.

(a) Theory and Practice of Physical Diagnosis Lectures. 2 each week. [See VII. (b).]
Professor WEBSTER.

(b) Physical Diagnosis Clinic. 1 each week. [See VII. (c).]
Professor WEBSTER.

(c) Recitations from Text-books. 2 hours each week. ¾ Semester.
Professors PREBLE and MIX.

THIRD YEAR.

(d) Dispensary Clinic to small classes of not more than 15 students. 4 weeks.

Doctors FOWLER, CHESTER, MOWRY, GIBSON, ELLIOTT, DYCHE, DAVIS, BUTT, CAMPBELL, BAXTER, and DENNIS.

(d, d) XVII. (c).—Summer Course. Equivalent to XVI. (d).

(e) Recitations from text-book. 4 hours each week. 1 Semester.
Professor PREBLE and MIX.

(f) Clinical Lectures at the College. 1 each week.
Professor PREBLE.

(g) Clinical Lectures at St. Luke's Hospital. 1 each week.
Professors EDWARDS, FAVILL and WALLS.

FOURTH YEAR.

(h) Lectures for 1902–1903. Diseases of the Lungs, Heart, Aorta and Kidneys. 1 hour each week.
Professor DAVIS.

(i) Lectures for 1902–1903. Infectious Diseases, Chronic General Diseases. 1 hour each week.
Professor EDWARDS.

(j) Clinical Lectures at Mercy Hospital.
Once weekly, 1st Semester; twice weekly, 2d Semester.
Professor DAVIS.
Once weekly.
Professor EDWARDS.
Once weekly, 1st Semester.
Professor WEBSTER.

(k) Clinical Lectures at College. 1 each week.
Professor EDWARDS.

(l) Clinical Lectures at Wesley Hospital.
Once weekly, 1st Semester.
Professor DAVIS.
Once weekly, 2d Semester.
Professor WEBSTER.
Once weekly throughout year.
Professor PREBLE.

(m) A Weekly Ward Visit is made by sections of the class to the wards of Wesley, Mercy, and St. Luke's hospitals under guidance of Professors DAVIS, EDWARDS, WEBSTER, WALLS, PREBLE, MIX, DYCHE, HARPOLE, CHESTER, and ELLIOTT.

(m, m) XVII. (d).—Summer Course. Equivalent to XVI. (m).

(n) Clinic, Provident Hospital. Once weekly. Section of class.

THE SUMMER SCHOOL.

There is an increasing demand for summer work on the part of students from other institutions whose clinical facilities are not so great as those enjoyed in Chicago, and on the part of those students of Northwestern University Medical School who are making special preparation for the competitive hospital examinations which occur at the end of the medical course, or of those who have entered from other medical colleges and have work to make up.

The courses of the summer school are well adapted to the needs of practitioners, there being extended opportunity for practice in the newer and more scientific methods of clinical diagnosis and pathology, as well as for experimental work in physiology, therapeutics, and surgery. The small number of students makes the clinical opportunity especially good.

The highest quality of work is insisted upon and full credit is given by the Registrar for the summer courses in so far as they cover the ground of the regular course of the college year.

The courses begin June 8th and extend to August 1st, thus covering the period of one-half semester.

Those desirous of doing summer work must register with the Clerk at the College for such courses as they desire.

Courses will not be given unless a sufficient number of students register for them.

The courses of the summer school will be found listed under the several departments.

WESLEY HOSPITAL.

THE ATTENDING STAFF.

Department of Medicine.

*Nathan Smith Davis, Jr., M.D.
*Arthur R. Edwards, M.D.
*George W. Webster, M.D.
*Robert Preble, M.D.

Department of Surgery.

*Weller Van Hook, M.D.
*John B. Murphy, M.D.
*Samuel C. Plummer, M.D.
*William E. Schroeder, M.D.

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*Members of the Faculty of Northwestern University Medical School.

Department of Gynecology.
*Emilius C. Dudley, M.D.
*Frank T. Andrews, M.D.
*Thomas J. Watkins, M.D.

Department of Nose and Throat.
*William E. Casselberry, M.D.

Department of Orthopedic Surgery.
*John Ridlon, M.D.

Department of Nervous and Mental Diseases.
*Archibald Church, M.D.
*Hugh T. Patrick, M.D.

Department of Eye and Ear.
*Henry Gradle, M.D.
Frank Allport, M.D.

Department of Obstetrics.
*Joseph Bolivar DeLee, M.D.

Department of Dermatology.
*Joseph Zeisler, M.D.

The most notable recent addition to the equipment of the Medical School is to be found in the operating rooms, wards, and laboratories of Wesley Hospital.

Neither expense nor time has been spared to make this one of the best equipped hospitals in the world.

With its laboratories for sterilizing and preparing dressings and instruments, its ampitheaters, its clinical and pathological laboratories, drug-room and morgue; with its sunbaths and suites of private rooms, and with its commodious, light, and well ventilated wards, this institution would seem to have reached the highest mark in hospital construction and equipment. The personnel of its staff vouchsafes to the public a high ideal in medical science in the treatment of disease, and guarantees to the medical undergraduates unexcelled opportunities to observe and to participate in the most advanced medical and surgical treatment of cases.

The wards and private rooms contain together 225 beds.

One of the largest and best training schools for nurses in Chicago is connected with Wesley Hospital.

The instruction given to the students in the Wesley Hospital makes a very important portion of their clinical course. This is naturally consequent upon the close relation of the two institutions —the hospital standing beside the College building and connected by corridors.

The course of Clinics to be given during the year 1903–1904 is planned to be as follows:

XV. Clinical Lectures in Surgery. Twice each week.
(f, i, and j) Professor VAN HOOK, assisted by Drs. RICHTER, BESLEY, MORF, and MATTER.
1 period of 2 hours each week.
Professors PLUMMER and SCHROEDER.

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XVI. (l) Clinical Lectures in Medicine. Once each week, 1st Semester.
Professor DAVIS.
Clinical Lectures in Medicine. Once each week throughout the year.
Professor PREBLE.
Clinical Lectures in Medicine. Once each week, 2d Semester.
Professor WEBSTER.

XII. (c) Clinical Lectures in Gynecology. Once each week, 2d Semester.
Professor DUDLEY and assistants.

XVI. (m) Ward Visits in Medicine.
Professors DAVIS, EDWARDS, WEBSTER, and PREBLE, and Dr. HARPOLE.

XV. (o) Ward Visits in Surgery.
Professors VAN HOOK, PLUMMER, and SCHROEDER, and Dr. RICHTER.

XIII. (f) Ward Visit in Neurology. Weekly.
Professor CHURCH.

MERCY HOSPITAL.

THE ATTENDING STAFF.

Consulting Physicians.
*Nathan Smith Davis, Sr., M.D.
*John H. Hollister, M.D.

Consulting Surgeon.
Edmund Andrews, M.D.

Department of Surgery.
*John B. Murphy, M.D.
*E. Wyllys Andrews, M.D.
*William E. Morgan, M.D.

Department of Medicine.
*Nathan Smith Davis, Jr., M.D.
*Arthur R. Edwards, M.D.
*George W. Webster, M.D.

Department of Neurology.
Archibald Church, M.D.

Department of Obstetrics.
*Joseph Bolivar De Lee, M.D.

Department of Gynecology.
*Frank T. Andrews, M.D.
*Thomas J. Watkins, M.D.

Department of Eye and Ear.
*Horace M. Starkey, M.D.

Department of Dermatology.
*Joseph Zeisler, M.D.

This hospital is at the corner of Calumet Avenue and Twenty-sixth Street, and is under the exclusive care of the Faculty. It is conducted by the Sisters of Mercy, and receives a large number of patients annually, both from the city and the country. It has

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recently been rebuilt and enlarged so that its capacity is increased to about four hundred beds.

Daily clinics are held in the hospital amphitheater, or at the bedside in the wards, according to the nature of the individual cases.

The members of the Clinical Class are allowed to examine the cases for themselves, and thus acquire a personal familiarity with the clinical aspect of a large variety of diseases.

In classes of two or three, students of the senior year are allowed to watch the progress of obstetrical cases under the direction of the House Physician.

Each member of the graduating class may serve as Surgical Dresser in Mercy Hospital, and receive a certificate for efficient and faithful services.

A laboratory has been equipped for Clinical Bacteriology and microscopical work, which will be utilized for teaching purposes as well as for clinical examinations. The fee for the annual Mercy Hospital ticket is six dollars.

The operating rooms are equipped with every modern facility.

The dressing and anæsthetizing rooms have been fitted up in a manner as near perfection as science and skill can make them.

The training school for nurses is one of the best in America, requiring a high school diploma for admission, and three years of twelve months each devoted to the theory and practice of trained nursing in every phase of the subject.

To students of the fourth year of the Northwestern University Medical School the following course is provided:

XVI. (j) Clinical Lecture in Medicine in the new amphitheater. Each week, 1st Semester; 2 each week, 2d Semester.
Professor DAVIS.

XV. (k) Clinical Lecture in Surgery. Twice each week in the new operating amphitheater to both third and fourth year classes.
Professor MURPHY.

XV. (l) Clinical Lecture in Surgery. Once each week.
Professor E. W. ANDREWS.

XVI. (j) Clinical Lecture in Medicine. Once each week, 1 Semester.
Professor WEBSTER.

XII. (d) Clinical Lecture in Gynecology.
Professor F. T. ANDREWS, 1st Semester.
Professor WATKINS, 2d Semester.

XI. (e) Clinical Lectures in Ophthalmology and Otology to sections of the class. Once each week.
Professor STARKEY or Dr. MANN.

XV. (m) Clinical Lecture in Surgery to sections of the class. Once each week.
Professor MORGAN.

XVI. (m) Ward Visits in Medicine. 3 each week.
Professors DAVIS, EDWARDS, and WEBSTER, and Drs. MIX and DYCHE.

XV. (o) Ward Visits in Surgery. 2 each week.
Professors MURPHY, ANDREWS, and MORGAN.

ST. LUKE'S HOSPITAL.

THE ATTENDING STAFF.

President, John E. Owens, M.D.
Vice-President, Frank Billings, M.D.
Secretary, Daniel E. Eisendrath, M.D.

Attending Surgeons.

*John E. Owens, M.D.
Lewis L. McArthur, M.D.
W. H. Allport, M.D.
M. L. Harris, M.D.

Attending Gynecologists.

*E. C. Dudley, M.D.
*T. J. Watkins, M.D.
L. E. Frankenthal, M.D.
Wm. Cuthbertson, M.D.

Attending Oculists and Aurists.

E. J. Gardiner, M.D.
Frank Allport, M.D.
A. Casey Wood, M.D.

Attending Orthopedic Surgeons.

*John Ridlon, M.D.
A. B. Hosmer, M.D.
F. S. Coolidge, M.D.

Attending Neurologists.

*Archibald Church, M.D.
Sanger Brown, M.D.

Attending Physicians.

Frank Billings, M.D.
Henry B. Favill, M.D.
*Francis X. Walls, M.D.
*Arthur R. Edwards, M.D.

Attending Obstetricians.

Frank Cary, M.D.
Junius C. Hoag, M.D.

Attending Oral Surgeons.

John S. Marshall, M.D.
Thomas L. Gilmer, M.D.

Pathologist.

*F. Robert Zeit, M.D.

Attending Laryngologists and Rhinologist.

*William E. Casselberry, M.D.
T. Melville Hardie, M.D.

This hospital is situated on Indiana Avenue, near Fourteenth Street. Owing to its central situation, it receives a large number of accident cases, and its surgical clinic is, consequently, an extensive one. Clinics are given regularly in Medicine, Nervous Diseases, Surgery, Gynecology, and Diseases of the Eye and Ear. The

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autopsies held by the Pathologists in the amphitheater of the hospital morgue constitute an important part of the clinical instruction.

The St. Luke's Training School for Nurses is one of the oldest and best in the West. Its students, now numbering fifty, must be thoroughly equipped, and they spend three years in theoretical and practical training.

The clinics and autopsies of St. Luke's Hospital are attended principally by the third-year students. The annual fee is five dollars. The following courses are given:

XVI. (g) Clinical Lectures in Medicine. Once each week.
Professors EDWARDS, FAVILL, and WALLS.

XV. (h) Clinical Lectures in Surgery. Once each week.
Professors OWENS, ALLPORT, MCARTHUR, and HARRIS.

XI. (b) Clinical Lectures in Ophthalmology. Once each week.
Drs. ALLPORT and WOOD.

XII. (a) Clinical Lectures in Gynecology. Once each week.
Professors DUDLEY and FRANKENTHAL.

XVI. (m) Ward Visits in Medicine. Once each week.
Professor WALLS.

PROVIDENT HOSPITAL.

THE ATTENDING STAFF.

Department of Surgery.

Daniel H. Williams, M.D.
*William E. Schroeder, M.D.
A. A. Wesley, M.D.
T. B. Swartz, M.D.

Department of Gynecology.

*Thomas J. Watkins, M.D.
G. C. Hall, M.D.
L. E. Frankenthal, M.D.
J. H. Eskridge, M.D.

Department of Dermatology.

L. B. Baldwin, M.D.

Department of Eye and Ear.

*William A. Mann, M.D.
Stewart Webster, M.D.

Department of Pathology.

*Winfield S. Harpole, M.D.

Department of Medicine.

A. H. Burr, M.D.
A. W. Williams, M.D.
John Leeming, M.D.
*Arthur R. Edwards, M.D.

Department of Obstetrics.

*Joseph B. De Lee, M.D.

Department of Pediatrics.

E. S. Stewart, M.D.

Department of Oral Surgery.

C. E. Bentley, M.D.
C. P. Pruyn, M.D.

This hospital, located at the corner of Thirty-Sixth and Dearborn streets, has been recently much enlarged. Besides its 100 beds which can accommodate 800 to 1,000 patients annually, there is a

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large dispensary in which about 6,000 ambulatory patients receive treatment each year.

The character of the staff is sufficient to guarantee that the patients will receive as good service as possible. A large and well conducted training school for nurses has charge not only of the hospital and dispensary patients, but supplies nurses to a large number of families in their "out-service."

The students of the Northwestern University Medical School have an opportunity to attend clinics by the Medical Staff and operations by the Surgical Staff; and are assigned in small classes to ward visits in Surgery and Gynecology.

XV. (n) Surgical Clinic to a section of the senior class. Once each week.
Professor SCHROEDER.

XII. (f) Gynecological Clinic to a section of the senior class. Once each week.
Professor WATKINS.

XVI. (n) Clinical Lecture to a section of the senior class. Once each week.

XV. (o) Ward Visits in Surgery. 1 each week.
Professor SCHROEDER.

THE SOUTH SIDE DISPENSARY.

THE DISPENSARY STAFF.

Chief of Dispensary Staff, - - Frank X. Walls, M.D.

Medical Department.

Professor A. R. Edwards.
Professor G. W. Webster.
Professor R. B. Preble.
Professor C. L. Mix.
Doctor E. B. Fowler.
Doctor W. S. Harpole.
Doctor P. Chester.
Doctor J. G. Campbell.
Doctor A. E. Mowry.
Doctor H. K. Gibson.
Doctor C. A. Elliott.
Doctor C. H. Miller.
Doctor G. B. Dyche.
Doctor A. Davis.
Doctor A. B. Butt.
Doctor G. E. Baxter.
Doctor G. J. Dennis.
Doctor C. M. Fox.

Surgical Department.

Professor W. Van Hook.
Doctor H. M. Richter.
Doctor F. A. Besley.
Doctor W. R. Cubbins.
Doctor P. F. Morf.
Doctor C. M. Matter.
Doctor A. B. Kanavel.
Doctor E. C. Riebel.

Neurological Department.

Professor A. Church.
Professor H. T. Patrick.
Professor C. L. Mix.
Doctor J. Grinker.
Doctor D'Orsay Hecht.
Doctor G. C. Shockey.

Orthopedic Surgical Department.

Professor John Ridlon.
Doctor A. J. Brislen.
Doctor J. M. Jacobs.

Department of Ophthalmology and Otology.

Professor Henry Gradle.
Doctor W. A. Mann.
Doctor R. S. Pattillo.
Doctor D. Salinger.
Doctor A. P. Horwitz.

Gynecological Department.

Professor E. C. Dudley.
Professor T. J. Watkins.
Professor F. T. Andrews.
Doctor H. E. Sauer.
Doctor R. T. Gillmore.
Doctor H. E. Davies.
Doctor Wm. Healy.

Department of Pediatrics.

Professor F. X. Walls.
Doctor T. C. McGonagle.
Doctor J. C. Brennemann.
Doctor M. Snow.

Department of Laryngology and Rhinology.

Professor William E. Casselberry.
Doctor F. C. Eggert.
Doctor F. K. Burr.
Doctor F. Menge.

Department of Dermatology and Syphilology.

Professor J. Zeisler.
Professor L. C. Pardee.

Genito-Urinary Surgery.

Professor L. E. Schmidt.
Doctor B. C. Corbus.
Doctor J. E. Colleran.

The Dispensary is in Davis Hall, which was constructed especially for an out-patient hospital, and contains accommodations as complete as any institution of its kind in the country. Between twenty-four and twenty-five thousand patients are treated in this dispensary annually. It has the following nine departments: Medicine, Surgery, Neurology, Orthopedics, Gynecology, Laryngology and Rhinology, Dermatology and Syphilology, Ophthalmology and Otology, and Pediatrics. Each department occupies a separate room, or suite of rooms, and is in charge of a clinical instructor.

Small classes of students are trained by the physicians in charge of the respective departments in the details of physical diagnosis

appropriate to each. A record of the attendance of each student at these clinics is preserved and is used in estimating his clinical record.

For dispensary courses, see the above departments in the catalogue.

CHICAGO LYING-IN HOSPITAL AND DISPENSARY.

The course of instruction offered by this institution is both clinical and didactic. Students that have completed one year's lectures on obstetrics are eligible to service.

The work is in- and out-door, students caring for cases in the Hospital at 294 Ashland Boulevard, and in the Dispensary service, which is carried on from 298 Maxwell Street.

The Dispensary is situated in the most thickly populated district of Chicago, and its work is done in the homes of the patients.

Over 1,100 patients are confined in this service yearly—150 in the Hospital and 950 in the Dispensary. Students from the Northwestern University Medical School are eligible for this service.

The strictest asepsis and antisepsis are practiced and taught.

Each student personally conducts six to ten labors, under the supervision of the resident staff, and gives personal care to the mother and child during the puerperium.

In addition, examinations of pregnant women are made in the Dispensary and lectures are given each week on the management of obstetrical cases. During these hours cases of interest and operations are discussed and demonstrated with the aid of charts, pelves, preparations, etc.

The course is two weeks, the fee $15.00, payable in advance.

Students report at 10 A. M. on the day beginning their service and must devote their entire time to the Dispensary. On the completion of their post-partum calls of the 15th day, and writing of the histories up to date their service ends.

Good lodgings are provided in the Dispensary, free of charge. Meals may be obtained in the restaurants of the neighborhood.

All the necessary instruments and supplies are furnished by the Dispensary free of charge, but a deposit of $5.00 to cover the cost of breakage and loss is required of each student. The deposit is returned on the completion of the two weeks' service.

Instruction is given during the entire year and each student receives a certificate of service signed by the Obstetricians.

Courses in the Chicago Lying-in Hospital and Dispensary are given by Professor De Lee.

COOK COUNTY HOSPITAL.

This hospital is situated at the corner of Wood and Harrison streets. The daily average number of patients is between five and six hundred.

The Cook County Hospital, being a public institution, is open to all medical schools for clinical instruction. A number of medical schools have located in its vicinity, and the number of students attending clinics at this hospital aggregates about two thousand, there frequently being one thousand at one clinic.

The representatives of the Faculty of Northwestern University Medical School on the Cook County Hospital Staff are:

In Surgery—Professors Murphy, Van Hook, and Schroeder.

In Medicine—Professors Edwards and Preble.

The Cook County Hospital Clinics by the faculty are as follows:

Friday—8 to 10, Edwards; 10 to 12, Murphy; 2 to 4, Schroeder.

Saturday—1 to 2, Preble.

HOSPITAL APPOINTMENTS.

There are four interneships at Wesley Hospital each year, six at Mercy Hospital, four at St. Luke's Hospital, twenty-seven at Cook County Hospital, five at Alexian Brothers' Hospital, three at the Michael Reese Hospital, two at St. Elizabeth's Hospital, two at Chicago Hospital, two at Provident Hospital, one at the Passavant Hospital, one at the Chicago Policlinic, and six at the Chicago Lying-in Hospital.

HOSPITAL APPOINTMENTS, 1902.

Cook County Hospital.

G. H. C. Koehler.	E. B. Rogers.
C. R. Snyder.	G. W. Parker.
J. G. Carr.	C. Palen.
W. Engelbach.	O. Rohrlach.

Mercy Hospital.

A. C. Kleutgen.
W. C. Jones.
J. B. Legnard.
J. Pestal.
H. A. Brereton.
H. M. Miller.

Wesley Hospital.

O. M. Haugan.
A. W. Skelsey.
N. D. Curry.
H. H. Roberts.

Michael Reese Hospital.

A. H. Cantril.

Provident Hospital.

H. D. Dudley.
H. O. Jones.
E. Darragh.

Passavant Hospital.

C. D. Bo Dine.
P. C. Clemensen.
C. K. Gibbons.

Col. F. and I. Co. Hospital.

H. T. Carriel.
J. T. Dowling.

St. Luke's Hospital.

F. M. Poindexter.
G. T. McCauliff.

Sturgeon Bay Hospital.

A. F. Higgins.

McKeesport Hospital, McKeesport, Pa.

M. H. Day.

The More Hospital, Eveleth, Minn.

W. A. Day.

Illinois Hospital for Women.

W. C. Egelhoff.

St. Francis Hospital, Wichita, Kan.

W. H. Galland.

German Hospital.

U. M. Horswell.

Rhinehart Hospital, Wis.

B. F. Hoyt.

St. Joseph's Infirmary, Ft. Worth, Tex.

R. S. Loving.

Mexican Central R. R. Hospital.

E. M. Sasvil.

Freeport Hospital.
K. F. Snyder.

Samaritan Hospital.
G. Walsh.

Charity Hospital.
W. W. Warriner.

Ill. Eastern Hospital for the Insane, Kankakee.
A. E. Williams.

Pathologist St. Luke's Hospital.
E. B. Hoag.

Provident Hospital, St. Louis.
D. H. Anderson.

Chicago Lying-In Dispensary.
E. N. Brown. E. R. Crossley.

Mining District Hospital, Va.
H. J. Cherry.

THE HOSPITAL QUIZ CLASS.

Experience has shown that students who have made a careful review of the branches of the medical course are more successful in the competitive hospital examinations than are students who have not had such a review. For a number of years this hospital review, or "quiz," was under student supervision and was unsystematic and unsatisfactory to both students and Faculty.

The Hospital Quiz Class is now under Faculty supervision and is so arranged that the students get a thorough review during the last twelve or eighteen months before the examinations without sacrificing any of their required senior work.

Only the best one-fourth of the graduating class are eligible to the quiz class. Since 1900 every member of the quiz class and as many more have secured good appointments.

REQUIREMENTS FOR GRADUATION.

To obtain the degree of Doctor of Medicine, students are required to take four full courses of lectures.

Essentials for graduation are:

1. Age, twenty-one years or over.
2. Four annual courses of lectures of eight months each.
3. Good moral character (which includes unexceptionable conduct while at the school).
4. Dissection of the median half of the human body.
5. Attendance upon clinics for three years.
6. Satisfactory standing in all final examinations.
7. Payment in full of all fees.

FINAL EXAMINATIONS.

Final examinations are held in each required course at the end of each semester.

Examinations for those who need a second examination are given in October.

Students defective in two or more branches after the October examinations must take those branches over, and can elect no studies that conflict with them. Such students will be classed as irregulars.

HONORS.

To a few students deemed worthy by the Faculty, because of their uniform good standing, honors will be granted and they may be graduated Cum Laude or Magna Cum Laude.

To students who have uniform good standing in required subjects and who do special work of an excellent character in any department, special honors will be granted.

SCHOLARSHIPS.

The Faculty have established ten scholarships which are awarded annually to those students who can demonstrate that they have the best preparation for the study of medicine. All applications must be made by August 15th. Letters of recommendation, certificates of college work done, etc., must accompany the applications. The awards will be made by September 1st.

ASSIGNMENT OF SEATS.

Students may register and secure seats in the amphitheaters at the opening of the next session, or by sending five dollars to H. P. Hendricks, Clerk of the School, at an early date.

TEXT-BOOKS AND REFERENCE BOOKS USED.
1902–1903.

(TEXT-BOOKS IN ITALICS.)

Dictionaries: *Gould*, Century, Foster, Duane.

Anatomy: *Gray*, Quain, Gerrish, Morris, Joessel, Edinger on the Brain and Spinal Cord, Spalteholtz, Howell on Dissection of the Dog, *Treves' Applied Anatomy*, Heath's Practical Anatomy, Holden's Osteology, Haynes' Manual of Anatomy.

Histology: Quain, Piersol, Schaefer.

Embryology: *Heisler*, Hertwig, Quain, Marshall, Minot.

Physiology: *Hall's Text-book of Physiology*, American Text-book of Physiology.

Chemistry: *Long's General Chemistry*, *Long's Analytical Chemistry*, *Long's Urine Analysis and Notes*, *Remsen's Organic Chemistry*, *Hammarsten's Physiological Chemistry*.

Materia Medica: *White* and *Wilcox's*, *Wood*, American Text-book of Applied Therapeutics, Hare's Practical Therapeutics.

Pathology: *American Text-book of Pathology*, *Mallory and Wright Pathological Technique*, Ziegler's General and Special Pathology, Thoma.

Clinical Pathology: *Cabot on Examination of the Blood*, Mallory and Wright, Pathological Technique.

Operative Surgery: *Stimson*, Kocher, Surgical Operations by Jacobson, Zuckerkandl.

Nervous Diseases: *Church and Peterson*, Dana, Gowers, Dercum, Gray, Mills.

Medical Jurisprudence: *Reese*, Taylor.

Practice of Medicine: *Osler*, Strumpell, Tyson, Twentieth Century, Allbutt, Loomis and Thompson, *Davis' Heart*, *Lungs*, *and Kidneys*.

Surgery: *International Text-Book of Surgery*, Tillmanns, Dennis, Da Costa, American Text-book of Surgery, Park.

Obstetrics: *De Lee's Notes*. *Hirst*, Jewett, American Text-book of Obstetrics, Lusk, Parvin.

Physical Diagnosis: *Webster's Notes*, *Vierordt*, Musser, Da Costa, Hare, Simon.

Diseases of Children: *Holt*, Hatfield, Smith, American Text-book of Children.

Diseases of the Eye: *Fuchs*, Jackson, De Schweinitz, May, American Text-book of Eye, Ear, Nose, and Throat.

Diseases of the Ear: *Gradle*, *Diseases of the Nose*, *Pharynx and Ear*, Bacon, Politzer, American Text-book of the Eye, Ear, Nose and Throat.

Gynecology: *Dudley*, Byford, Webster, Kelly, Emmet, Montgomery, Reed.

Laryngology: *Kyle*, Bosworth, McBride, American Text-book of Eye, Ear, Nose, and Throat.

Dermatology: *Jackson*, Crocker, Kaposi, American Text-book of Skin and Venereal Diseases, Morrow.

Etiology and Hygiene: *Rohe*, Abbott, Egbert.

Bacteriology: *McFarland*, Muir and Ritchie, Abbott, Crookshank, Sternberg.

Orthopedic Surgery: *Ridlon*, Bradford and Lovett, Tubby.

Syphilis and Venereal Diseases: Taylor, Keyes.

EXPENSES.

Matriculation Fee.—The student is required to pay at the time of his first registration a matriculation fee of five dollars. This fee is paid but once, and is charged all students alike.

Annual Fee.—A fee of one hundred and sixty-five dollars must be paid annually by all students.

The annual fee may be paid in installments as follows: Before October 5th, $60.00; before January 5th, $60.00; before April 5th, $60.00. A *discount* of $15.00 is made when all fees and deposits are paid before October 5th.

Practitioners who are making brief visits to the city are always welcome to attend lectures and clinics. Those wishing to attend single lecture or laboratory courses through the year will be charged from fifteen to twenty-five dollars for each course. Those who wish to take all of the work of any one year will pay the same fee that regular students do.

Optional Courses.—A fee is charged for certain optional courses to cover cost of material used.

Deposits.—Deposit fees of ten dollars are required as a precaution against breakage or injury to apparatus in the laboratories and unnecessary damage to buildings or loss of instruments in laboratories and clinics. These fees are refunded in case no injury or loss occurs. Deductions from them will be made to cover breakage in laboratories and any unnecessary injury to the buildings or property of the college. Such deductions will be made from the deposit of individual students when it can be determined who has caused breakage

or loss of apparatus or defacement of buildings. When it cannot be determined who has caused such loss or injury to college property the value of the loss or injury will be deducted pro rata from the deposits of all students. This deposit must be made before October 5th.

Board and lodging vary in price from three and a half to six dollars a week. Rooms, for those who desire to board and lodge themselves, will cost from six to ten dollars per month. Students may form boarding clubs in which the cost of board can be reduced to two dollars. A list of desirable rooms and boarding-places recommended by the boarding-house committee of the Y. M. C. A. can be obtained at the Association rooms or at the College office.

Young Men's Christian Association.—The Association of Northwestern University Medical School was organized in 1892. It aims to aid in the development of the highest moral and religious character in young men. It is connected with the Intercollegiate Department of the Chicago Association. By this arrangement members can obtain full privileges, at 60 per cent of the regular rates, at any of the Y. M. C. A. buildings in this city. These privileges include gymnasia, baths, natatoria, restaurants, barber shops, bicycle storage, receptions, clubs of various kinds, libraries, evening instruction in Latin, German, mathematics, etc., courses of lectures and other entertainments. Religious meetings will be held during the college year once a week, and classes in Bible-study, with weekly meetings, are maintained. Committees will cheerfully aid students in obtaining board and rooms, employment, etc. For further information call on or address W. P. Duncan at the college.

How to Reach the College.—Students who desire to go directly to the college from the trains should take the South Side Elevated Railroad and get off at Twenty-sixth Street.

For further information relating to the Medical School, address Professor Arthur R. Edwards, M.D., Secretary, 2431 Dearborn Street, Chicago, Illinois.

THE LAW SCHOOL.

CHICAGO.

FACULTY.*

EDMUND JANES JAMES, Ph.D., LL.D., *President of the University.*

JOHN HENRY WIGMORE, A.M., LL.B., *Professor of Law and Dean of the Faculty.*

HARVEY BOSTWICK HURD, LL.D., *Emeritus Professor of Law.*

NATHANIEL CLINTON SEARS, A.M., LL.D., *Professor in the Law of Procedure and Practice.*

CHARLES CHENEY HYDE, A.M., LL.B., *Assistant Professor of Law.*

ALBERT MARTIN KALES, A.B., LL.B., *Assistant Professor of Law.*

SAMUEL ADAMS, A.B., LL.B., *Professor in the Law of Procedure and Practice.*

JOHN HENRY SHELDON LEE, A.B., LL.B., *Assistant Professor in the Law of Crimes and Criminal Procedure.*

CHARLES GEORGE LITTLE, A.B., LL.B., *Assistant Professor of Law.*

HENRY SCHOFIELD, A.M., LL.B., *Professor of Law.*

LOUIS MAY GREELEY, A.B., *Professor in the Law of Conveyancing.*

WILLIAM MEADE FLETCHER, LL.B., *Professor in the Law of Equity, Pleading and Practice.*

LEVI HARPER FULLER, B.S., LL.B., *Professor in the Law of Procedure and Practice.*

FREDERIC CAMPBELL WOODWARD, A.M., LL.M., *Professor of Law.*

CHARLES CLARENCE LINTHICUM, LL.B., *Professor in the Law of Patents.*

WILLIAM H. DYRENFORTH, LL.B., *Professor in the Law of Patent Practice.*

OTTO RAYMOND BARNETT, LL.B., *Associate Professor in the Law of Patents.*

*Arranged, with the exception of President and Dean, within each group in the order of seniority of appointment.

LESTER LE GRAND BOND, *Lecturer on Trademark and Copyright.*
HON. PETER STENGER GROSSCUP, A.M., LL.B., LL.D., *Lecturer on International Law.*
LOUIS LEE DENT, A.B., *Lecturer on Mortgages and on General Practice.*
CHARLES BYRD ELDER, LL B., *Lecturer on Extraordinary Legal Remedies and on Judgments.*
MITCHELL DAVIS FOLLANSBEE, A.B., LL.B., *Lecturer on Legal Ethics.*
HENRY CLAY HALL, B.S., LL.B., *Lecturer on Insurance.*

FREDERIC BEERS CROSSLEY, LL.B., *Secretary of the Law School and of the Faculty.*

NORTHWESTERN UNIVERSITY BUILDING.

The Law School is located in the Northwestern University Building, on the southeast corner of Dearborn and Lake Streets, Chicago. This property was recently acquired by the University at a cost of $500,000 and has been remodeled at a cost of over $275,000. The Law School occupies the entire third floor, containing a floor space of some 23,000 square feet. The quarters are commodious and handsomely equipped, and include two lecture rooms, a court room, an alumni room, a students' assembly room, several private studies for the school law clubs and for similar purposes, besides a set of 200 lockers and the usual office rooms and professors' rooms, as well as a library and reading room occupying 5,000 square feet of floor space. The students' assembly room is spacious and well equipped as a place for rest and conversation, the desire being to have the apartments as comfortable and attractive as possible for those students who have no home accommodations in Chicago.

FOUNDING AND PURPOSE OF THE LAW SCHOOL.

The Law School was founded in 1859, there being at the time but three similar schools west of the Alleghany Mountains. For a long time it was known as the Union College of Law, but in 1891 it assumed its present name.

The Law School offers to students a thorough training

in the various subjects of the law. Its students come from all parts of the country, and its course is arranged with a view to giving students that knowledge of the law which will be indispensable to them wherever they may practice. Special opportunities, however, are afforded for acquiring a knowledge of the law of Illinois, the peculiarities of which are pointed out in each course.

REQUIREMENTS FOR ADMISSION.

Persons applying for admission as regular students must answer the following requirements:

1. *Age.*—They must be not less than eighteen years of age.

2. *Preliminary Education.*—A candidate for a degree must have a preliminary general education equivalent to that of a graduate of a high school.

3. *Time of Entrance.*—No applicant not coming from another law school will be admitted to the first-year class after the second week in January, for the reason that the courses of study are carefully graded and an acquaintance with earlier courses is necessary for the pursuit of the later ones. Those who do not enter by the beginning of January cannot work with profit to themselves, and are a hindrance to the progress of others. All students intending to enter the school are strongly urged to do so at the beginning of the year. The disadvantage of delay is great, especially to students who intend to practice law in Illinois.

ADVANCED STANDING.

The requirements in regard to advanced standing are explained under the title "Degrees," on page 236.

SPECIAL STUDENTS.

Persons not desiring to be candidates for a degree may pursue one or more courses as special students, provided they are qualified to pursue such courses to advantage. They will receive a certificate of all work done, and they may at any time enter as candidates for a degree, provided they are qualified under the above requirements. No special student may take more than twenty-five term-hours of work in one year without special permission from the Dean.

COURSES OF INSTRUCTION.

FIRST YEAR.

FIRST TERM.

Contracts—Three hours a week. Keener's Cases on Contracts.
Professor WOODWARD.

Torts—Three hours a week. Ames' and Smith's Cases on Torts.
Professor WIGMORE.

Property (*I*)—Two hours a week. Gray's Cases on Property. Vols. I, II.
Professor KALES.

Common Law Pleading and Procedure—Two hours a week. Ames' Cases on Pleading; Andrews' Stephen on Pleading.
Professor ADAMS.

Crimes and Criminal Procedure—Two hours a week. Beale's Cases on Criminal Law.
Professor LEE.

SECOND TERM.

Contracts (continued)—Three hours a week.
Professor WOODWARD.

Torts (continued)—Two hours a week. Professor WIGMORE.

Property (*I*) (continued)—Two hours a week.
Professor KALES.

Common Law Pleading and Procedure (continued)—One hour a week. Lectures and practical exercises.
Professor ADAMS.

Master and Servant in Tort—One hour a week. Wambaugh's Cases on Agency.
Professor WIGMORE.

Damages—One hour a week. Beale's Cases on Damages.
Professor SCHOFIELD.

SECOND YEAR.

FIRST TERM.

Evidence—Two hours a week. Thayer's Cases on Evidence, 2d edition.
Professor WIGMORE.

Trusts—Two hours a week. Ames' Cases on Trusts.
Professor WOODWARD.

Agency—Two hours a week. Wambaugh's Cases on Agency.
Professor LITTLE.

Commercial Paper—Three hours a week. Ames' Cases on Bills and Notes.
Professor HYDE.

Equity (*I*)—Torts. Three hours a week. Keener's Cases on Equity, Vol. I. Professor SCHOFIELD.

Property (*II*)—Two hours a week. Gray's Cases on Property Vols. III, IV. Professor KALES.

Equity Pleading and Procedure—Two hours a week. Fletcher on Equity Pleading, and practical exercises.

Professor FLETCHER.

Persons (*Domestic Relations*)—Two hours a week. Smith's Cases on Persons. Professor KALES.

Extraordinary Legal Remedies (Mandamus, Quo Warranto, Habeas Corpus, etc.)—One hour a week. Mr. ELDER.

SECOND TERM.

Evidence (continued)—Two hours a week.

Professor WIGMORE.

Property (*II*) (continued)—Two hours a week.

Professor KALES.

Equity (*II*)—Specific Performance. Three hours a week. Keener's Cases on Equity, Vol. II. Professor SCHOFIELD.

[Given in 1903–1904 and alternate years.]

Equity (*III*)—Sundry Topics. Three hours a week. Keener's Cases on Equity, Vol. III. Professor SCHOFIELD.

[Omitted in 1903–1904 and alternate years.]

Bankruptcy—Two hours a week. Williston's Cases on Bankruptcy. Professor WOODWARD.

Quasi-Contracts—Two hours a week. Keener's Cases on Quasi-Contracts. Professor WOODWARD.

Sales of Personalty—Two hours a week. Williston's Cases on Sales. Professor WOODWARD.

Carriers—Three hours a week. McClain's Cases on Carriers; Beale's Cases on Carriers. Professor HYDE.

[Omitted in 1903–1904 and alternate years.]

Admiralty and Marine Insurance—Three hours a week.

Professor HYDE.

[Given in 1903–1904 and alternate years.]

Judgments and Auxiliary Legal Remedes (Attachment, Garnishment, Execution, etc.)—One hour a week. Rood's Cases on Attachments and Judgments. Mr. ELDER.

Insurance (*Fire and Life*)—Two hours a week. Wambaugh's Cases on Insurance. Mr. HALL.

THIRD YEAR.

FIRST TERM.

Corporations—Two hours a week. Smith's Cases on Corporations. Professor LITTLE.

Procedure and Practice in Illinois—Two hours a week. Professor SEARS.

International Law (*I*)—Two hours a week. Scott's Cases on International Law. Professor HYDE.

Suretyship—Two hours a week. Ames' Cases on Suretyship. Professor LITTLE.

Constitutional Law—Two hours a week. Thayer's Cases on Constitutional Law. Professor SCHOFIELD.

Jurisdiction of Federal Courts—One hour a week. Professor SCHOFIELD.

Property (*III*)—Two hours a week. Gray's Cases on Property, Vol. V. Professor KALES.

Conveyancing—One hour a week. Drafting exercises, study of selected abstracts, and lectures on practice. Professor GREELEY.

Conflict of Laws—Two hours a week. Beale's Cases on Conflict of Laws. Professor HYDE.

Mortgages—Two hours a week. Kirchwey's Cases on Mortgages. Mr. DENT.

Code Pleading and Procedure. One hour a week. Cases on Code Pleading. Professor WOODWARD.

Practice Court—Two hours a week, at a single session. Causes prepared and conducted through all details of litigation, by students as attorneys and counselors, under the direction of a professor as judge. Professor FULLER.

* *Patents of Invention* (*I*)—General survey. Five lectures. Professor LINTHICUM.

(*II*)—Patent Soliciting. Twenty lectures, with practical exercises. Professor DYRENFORTH.

(*III*)—Patent Law and Practice. Forty lecturss. Professor BARNETT.

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*These three form a single course; the first part is open to all students; the second and third parts are open to students of the second and third years, and to special students, but cannot be taken separately. The number of lectures is equivalent to two hours a week through the year, and work in the course will therefore be credited as four term hours.

SECOND TERM.

Corporations (continued)—Two hours a week.
Professor LITTLE.

Procedure and Practice in Illinois (continued)—Two hours a week.
Professor SEARS.

Constitutional Law (continued)—Two hours a week.
Professor SCHOFIELD.

Conveyancing (continued)—One hour a week.
Professor GREELEY.

Conflict of Laws (continued)—Two hours a week.
Professor HYDE.

Practice Court (continued)—Two hours a week, at a single session. Professor FULLER.

Patents of Invention (continued). Professor BARNETT.

Property (*III*)—Two hours a week. Gray's Cases on Property, Vol. VI. Professor KALES.

International Law (*II*)—American Treaties and Diplomacy; topics for research. Two hours a week. Professor HYDE.

Parts II and III will not be given, unless at least twenty special students apply for them before October 15.

Municipal Corporations—Two hours a week. Smith's Cases on Municipal Corporations. Professor SCHOFIELD.

Partnership—Two hours a week. Ames' Cases on Partnership.
Professor LITTLE.

International Law and Policy—One or more lectures.
Judge GROSSCUP.

Legal Ethics—Five lectures. Mr. FOLLANSBEE.

COURSES OF LECTURES NOT COUNTING FOR A DEGREE.

Trade-Marks and Copyrights—Six lectures. Mr. BOND.

General Review—Five hours a week for a month; given twice, in September and April, prior to the State examination for admission to the bar. Mr. DENT.

COURSES IN THE COLLEGE OF LIBERAL ARTS.

Law students are admitted without charge to courses in the College of Liberal Arts. The consent of both faculties must be obtained, however, and not more than one subject may be taken in the college in each year.

SELECTION OF COURSES.

The total number of term hours offered for selection in this curriculum is one hundred and eleven, the equivalent of nearly fifty-six hours a week through the year. The courses being graded as carefully as possible between the three-year groups, no first year student may take courses in the second or third-year groups without special permission; and no second-year student may take courses in the third-year group (except Constitutional Law and Patents of Invention) without special permission; and a third-year student taking the courses of Conveyancing and Property III must already have taken the courses of Property I and II. But any regular student may take any course offered in the group of the year for which he is entered, or any course not already taken by him in a preceding year.

SPECIAL TRAINING IN LEGAL WRITING AND SPEAKING, AND IN THE PRACTICE OF THE LAW.

In addition to the systematic instruction in the body of the law, as represented in the foregoing curriculum, an effort is made to provide adequate training in the practical use of legal knowledge and discipline, as well as in certain important details of legal writing and speaking, which help materially to equip the accomplished lawyer. The various branches of work directed to this end are as follows:

1. *Pleadings.* In the courses on Common Law Pleadings and Equity Pleading, in addition to the systematic course of study, the student is given exercises in the drafting of the various kinds of pleadings.

2. *Conveyancing.* In the course on conveyancing the chief material of the work consists in a series of selected abstracts of title, some twenty-five in all, representing the greatest variety of documents and proceedings involving property right. A separate copy of each abstract is placed in the hands of every member of the class, and a detailed study is made of the various matters of form and substance from the conveyancer's point of view. Thorough work in this course ought to equip the student as a practical conveyancer at the time of his entering upon his profession. No one

may take this course who has not already taken the courses Property I and II.

3. *Practice Court.* In the several courses of lectures on Procedure and Practice a systematic and detailed survey is taken of the rules of law. In the Practice Court an opportunity is given to the third-year students to become practically familar with these rules by the personal application of them in litigation managed by the student himself. The Court's sessions are held weekly, on Thursday evenings, for two hours. During each session from one to three cases are tried, with and without a jury; and other cases are disposed of in various aspects. In the meantime, between the sessions, numbers of causes are being prepared and advanced from stage to stage by the student-attorneys in charge. While the proceedings are dispatched, at the hearings, by the respective attorneys, all other members of the class are required to attend and make notes and reports of the work being done, so that each one obtains some benefit also from what is done in his presence by others A faithful observance of the work of this course ought to give the graduate such an experience in using his legal knowledge as will assist him materially to start in his profession with greater readiness and practical facility. The systematic pursuit of such work under an experienced instructor obtains for the student the same results as a period of desultory service in a law office, and is a more economical in time and more thorough and accurate in quality. A copy of the printed Rules of the Practice Court will be mailed to any one upon request.

4. *Legal Tactics.* In 1902–1903, on every Monday evening until April, an address was given, by some well-known member of the Bar, upon some topic of practice in which he had had special experience, and in which the communication of personal experience was of special value as a guide to others. This course was of particular value to young practitioners already at the Bar, and will be repeated in 1903–1904, with some variations. The BULLETIN for February, 1903, contained two of these addresses, selected as typical.

5. *Public Speaking.* The function of a lawyer, as the persuasive adviser and leader of men, needs for its development some training in oral argument and debate, use of the voice, conduct of meetings and the like. Such a course of training was offered in 1902-1903, in the following three parts:

(*a*) *Argument and Debate.* An exercise of two hours, once in two weeks through the first term, conducted by Professor J. SCOTT CLARK, of the College of Liberal Arts.

(*b*) *Voice Training.* An exercise of one hour, once a week

through the first term, in a class of two sections, meeting alternately, conducted by Mr. DENNIS, of the Cumnock School of Oratory.

(*c*) *Parliamentary Practice.* An exercise of one hour, once a week through the first term, conducted by Professor JOSEPH W. ROBERT, of the Robert School of Parliamentary Law.

This course in Public Speaking will be open to all students on payment of the special tuition fee, and may be taken a second or a third time without further charge. But it will not be given in 1903–1904, unless at least fifty students apply for it before October 15th.

6. *Thesis.* It is the desire of the Faculty to encourage original research by students. Any member of the third-year class may therefore obtain credit to an amount not exceeding two term-hours by presenting a satisfactory thesis upon some legal topic approved by a member of the Faculty before December 1st. The thesis must be presented on or before May 15th of the year in which the student expects to graduate; it must be printed on the typewriter or otherwise, and is to be kept permanently in the school. The work should be begun not later than December. The Lee prize is awarded for the best thesis.

7. *Moot Courts and Briefs.* For the purpose of training students in the independent investigation of legal questions and in the preparations of briefs, Moot Courts are held weekly from October to April. Each member of the second-year class is required to take part as counsel at least three times, and to sit as judge in other cases. The courts are conducted by means of clubs, which select their own members. A professor presides at each session. Credit for one term-hour is given for work satisfactorily done therein.

DEGREES.

All degrees are conferred at the general University Commencement. On this occasion all candidates for degrees are required to present themselves in person, the Oxford cap and gown being worn as the official dress.

I. BACHELOR OF LAWS.

The degree of Bachelor of Laws will be conferred by the Trustees of the University upon students who are recommended therefor by the Faculty of the School. Such students will be recommended as, in the judgment of the Faculty, are of fit character and have complied with the following requirements:

I. *Attendance*—Regular attendance for three years is required of all students with the following exceptions:

1. Students who have studied law for one year, either in a college, a law school, or an attorney's office, may obtain a degree in two years.

2. Students who have satisfactorily completed two years' study in a law school in good standing may obtain a degree in one year.

3. Students who have satisfactorily completed one year's study in a law school in good standing, and who have also studied law for one year, either in a college, a law school, or an attorney's office, may become candidates for a degree in one year by obtaining special permission from the Dean.

II. *Registration*—Candidates for a degree must register for work amounting to at least ten hours a week for each year.

III. *Course of Study*—All candidates for a degree must pass examinations in courses amounting to sixty term-hours, the equivalent of courses of study of ten hours a week for three years. But persons who have satisfactorily completed a two years' course of study in a law school in good standing will be excused from one-half of the examinations above required.

Persons who have satisfactorily completed less than two years' study of law in a college or law school in good standing, may be given credit for this work and be excused from these examinations to such extent as shall be determined in each case by the Dean. The specific subjects in which such credit may be given will be determined by the Secretary at the time of admission.

Four grades are given for work done. The grades are as follows: A, excellent; B, satisfactory; C, unsatisfactory; D, failure. A student may not count a course in which he obtains grade C, except he obtain grade A in another course or courses of equivalent amount; and except that he may count courses in which he obtains grade C to the extent of one-sixth of the total work required to be done by him in this School for graduation.

II. MASTER'S DEGREE.

The Master's degree in Arts, Philosophy, Science or Letters will be conferred under the following conditions:

A graduate of the College of Liberal Arts of this University, or of some other in which the requirements for the Bachelor's degree in Arts, Philosophy, Science or Letters are equivalent to the requirements for the same degree at this University, may obtain the Master's degree at the same time with the degree of Bachelor of Laws by pursuing, with the

sanction of the Faculty of Liberal Arts, advanced work in subjects approved by that Faculty, and obtaining credit in such work to the amount of twelve semester-hours; and by presenting a thesis on an approved topic. The courses of study may, in part or entirely, deal with legal subjects; but courses of legal study, in order to count for the degree, must be (*a*) of an advanced nature, (*b*) not otherwise counted for the degree of Bachelor of Laws, (*c*) pursued under the direction of a member of the Faculty of the Law School. Students in law intending to become candidates for the Master's degree must register for the same in the College of Liberal Arts and in the Law School on or before the first Monday in October of the year in which they expect to graduate, and must pay the diploma fee of ten dollars. The Master's degree is open upon the same terms to graduates of the Law School who register before the October next following the completion of their professional course.

The following subjects have been approved by the Faculty of Liberal Arts, and work therein may be counted for the Master's degree: Constitutional Law, International Law, Administrative Law, Roman Law, Jurisprudence, Legal History.

SCHOLARSHIPS.

Six assistant librarians and monitors are appointed annually. These receive free tuition in compensation for their services. Applications for appointment should be addressed to the Secretary of the Law School.

PRIZES.

1. *The Towle Prize*—A prize of fifty dollars, the gift of Henry S. Towle, Esq., Chairman of the Law School Committee of the Board of Trustees, will be awarded in 1902–1903 for proficiency in public speaking, on conditions to be announced later.

2. *The Lee Prize*—A prize of fifty dollars, the gift of Blewett Lee, Esq., formerly professor in the School, will be awarded in 1902-1903, to that member of the graduating class who presents the best thesis; but the Faculty reserve the right not to award this prize if no thesis should be presented having sufficient merit to justify this distinction.

3. *The Callaghan Prize*—A prize of fifty dollars in books to be selected from their own publications, the gift of Messrs. Callaghan and Company, of Chicago, will be awarded annually to the member of the graduating class having the best record in scholarship for the entire course.

In 1902 the Callaghan Prize was awarded to Charles Yoe Freeman, A.B., of Chicago.

TUITION FEES.

The tuition fee for regular students is one hundred and five dollars a year, payable in three installments of thirty-five dollars each, October 1st, January 10th, and April 1st. A rebate of five dollars is allowed to students who pay the entire tuition in advance on October 1st.

Special students are charged at the rate of five dollars for each hour of class-room work for a half year. The fee for the course in Patent Law is twenty-five dollars.

THE SCHOOL OF PHARMACY.

CHICAGO.

FACULTY.

EDMUND JANES JAMES, PH.D., LL.D., *President.*

OSCAR OLDBERG, PHARM.D., *Dean, Professor of Pharmacy.*

WILLIAM EDWARD QUINE, M.D., *Emeritus Professor of Physiology, Therapeutics, and Toxicology.*

ALBERT SCHNEIDER, M.D., PH.D., *Professor of Botany, Pharmacography and Bacteriology.*

HARRY MANN GORDIN, PH.D., *Professor of Chemistry.*

MAURICE ASHBEL MINER, PHARM.M., *Registrar, Assistant Professor of Pharmacy.*

CHARLES WAGGENER PATTERSON, SC.B., PH.C., *Secretary pro tem., Assistant Professor of Analytical Pharmaceutical Chemistry.*

HARRY KAHN, PHARM.M., M.D., *Assistant Professor of Physiology and Materia Medica.*

DAVID CHARLES ECCLES, SC.B., A.M., *Librarian, Instructor in Analytical Chemistry.*

HENRY BENJAMIN CAREY, SC.B., *Instructor in Botany and Pharmacography.*

MARINUS LARSEN HOLM, PH.C., *Instructor in Dispensing.*

JOHN FRED FISCHNAR, PH.C., *Assistant in the Pharmaceutical Laboratory.*

LEONARD ALFRED JOHNSON, PH.G., *Assistant in the Chemical Laboratory.*

MARGARET ISABEL PLANT, *Stenographer and Clerk.*

The School of Pharmacy was established in 1886, and is the largest University School for the education of pharmacists in the United States. It is located in Northwestern University Building, on the southeast corner of Lake and Dearborn Streets, Chicago. Its equipment is unsurpassed, and the members of its teaching staff devote their time to the classes of the school of pharmacy exclusively.

The University fully recognizes the great importance of adequate scientific special training for the proper performance of such responsible duties as those of the practice of pharmacy. Accordingly, it makes most ample provision for a thorough pharmaceutical education. All of the work of the pharmaceutical school is specialized so as to render it as effective as the time devoted to its completion will permit, and the courses in the School of Pharmacy of Northwestern University are not exceeded in length or in the amount of instruction.

EQUIPMENT.

The School of Pharmacy occupies the whole fourth floor (160 by 180 feet) of Northwestern University Building. The instruction rooms, laboratories, museum, library, and other college rooms form a rectangle around the central light court. They are, therefore, lighted from the Lake Street front on the north, Dearborn Street on the west, a wide alley on the south side of the building, and the four-sided light court in the center. The building is heated by steam. The furniture and apparatus are new.

The two Lecture Rooms are provided with comfortable modern opera seats fitted with arm writing-tablets. The seating capacity of one is two hundred and that of the other nearly one hundred.

The Laboratories are: 1st, the Inorganic Chemical Laboratory, of sufficient capacity to accommodate two hundred students, in three sections, for the courses in experimental and analytical inorganic chemistry; 2d, the Laboratory for Pharmaceutical Botany and Pharmacography, with accommodations for three hundred, in six sections; 3d, the General Pharmaceutical and Chemical Laboratory for instruction and practice in the manufacture and purification of chemicals and in making pharmaceutical preparations, having a capacity sufficient for two hundred and seventy-five students, in four sections; 4th, the Organic Chemical Laboratory, with tables for one hundred students, in four sections; 5th, the Dispensing Laboratory for

instruction and practice in the preparation of medicines in accordance with the physicians' prescriptions, this workshop being of sufficient size for over two hundred students, in six sections; and 6th, the Bacteriological Laboratory accommodating forty-eight students three times a year.

The Dispensing Laboratory of the School of Pharmacy of Northwestern University was the first of its kind, and is one of the most important and valuable features of an adequate course of practical pharmaceutical training. The students see and use in that laboratory the most complete assortment of special apparatus, and are given practical drills in all phases of the technical work of the dispensing table, the lessons being selected or prepared expressly for that purpose.

The Museum exhibits of drugs, chemicals, preparations, and apparatus, owned by this School, are exceptionally extensive and complete.

The Library contains over a thousand volumes of well-selected reference works, including the pharmacopæias of all countries, all the principal current chemical and pharmaceutical journals of the world, the best works on botany, chemistry, pharmacy, and pharmacognosy, the encyclopædias and dictionaries of value to students, and a large number of formularies.

THE SCHOOL YEAR.

In order to make the fullest use of a plant so extensive and valuable as that of the School of Pharmacy of Northwestern University, for the purposes for which it has been provided, the institution will be in operation practically continuously. It will be closed only in the month of August. The eleven months of school work will be divided into three terms of equal length. The winter term begins about the fourth of January and ends about the middle of April, after which the spring term begins, which ends at the close of July, and the fall term begins about the seventh of September and closes about the twentieth of December. Students may enter at the beginning of any term, and may graduate at the close of any term when they have completed the course.

ADMISSION.

No student is admitted under eighteen years of age unless a graduate of a standard high school, or possessing a general education equivalent to that required for such graduation. All matriculants for the degree of *Gratuate in Pharmacy* must possess a general education at least equivalent to that required for admission to a high school of the best grade.

Persons who have, *upon examination*, been registered by Boards of Pharmacy as pharmacists, assistants or apprentices, are admitted upon presentation of their certificates.

Matriculants for the degree of *Pharmaceutical Chemist* must possess a general education at least equivalent to that attained by the completion of two year's attendance at a high school of the best grade.

Matriculants for the degree of *Master of Pharmacy* must satisfy the requirements for admission to the College of Liberal Arts of this University, or prove an equivalent educational preparation approved by the Faculty of that college, or must have satisfactorily completed three years of full work in said college before they take up the work in the School of Pharmacy.

SUBJECTS INCLUDED IN THE COURSES OF INSTRUCTION.

Pharmaceutical Botany, including histology, organography, and taxonomy; lectures and laboratory work. Six hours weekly are devoted to laboratory work in the *Microscopical Laboratory* during fourteen weeks.

Pharmacography. The study of plant drugs, whole and powdered. Six hours weekly of microscopical laboratory work is required. This course is given after the completion of the course in botany.

Inorganic Chemistry, including general, theoretical, and descriptive inorganic chemistry, with laboratory work twelve hours weekly in experimental chemistry and qualitative analysis during fourteen weeks; and, in volumetric and gravimetric analysis,

twelve hours weekly during fourteen weeks upon completion of the qualitative work.

Junior Pharmacy, including metrology; preparatory study of the materials, methods, and products of pharmacy; the pharmacopœia; pharmaceutical nomenclature; the pharmacy laws, and general pharmaceutical technology.

Senior Pharmacy, including the principles and processes of special inorganic pharmaceutical chemistry as applicable to the production of chemical preparations; the galenical and chemical organic pharmaceutical preparations; the study of prescriptions and the art of dispensing, and a brief course in the comparative study of the pharmacopœias of the world.

Laboratory work is required in the General Laboratory amounting to about six hours weekly in each term from matriculation to graduation, and a total of eighty hours in the Dispensing Laboratory during the fourth term of the course for the degree of Graduate in Pharmacy.

Organic Chemistry, theoretical and descriptive, with laboratory work in drug assaying, alkaloidal titration, the examination of drinking water and food products, fats and soaps, and other related organic analytical work. The laboratory work amounts to about four hundred hours, and is all included only in the course for the degree of Pharmaceutical Chemist except seven weeks work in the practice of the assay processes of the United States Pharmacopœia, which is done during the fourth term by candidates for the degree of Graduate in Pharmacy.

Alkaloids and other important plant constituents. A short special course of lectures by the Professor of Organic Chemistry.

Human Physiology, including morphology; a course of lectures continuing through one term.

Materia Medica and Therapeutics, including the origin, action, uses, and doses of drugs and their preparations, together with the study of poisons and their toxic effects and antidotes.

Urine Analysis. A course of laboratory work continuing through seven weeks, nine hours weekly.

Bacteriology. A laboratory course of seven weeks with nine hours work weekly, accompanied by lectures on bacteria in health and disease; culture media; culture methods and staining; identification of some of the more common bacteria of earth, air, and water; and on toxins and antitoxins.

DEGREES.

The Degree of Graduate in Pharmacy is conferred upon students who have completed four terms of school work occupying fourteen months. This course may be accomplished in four consecutive terms without any interruptions except the recess of one month in August and the Christmas holiday recess of two weeks. But students may, if they desire, attend only one or two terms annually and re-enter at the beginning of any subsequent term to continue their studies, for the corps of teachers is sufficient to enable each to repeat his work two or three times annually so that nearly all sub-courses can be taken by the student any term. Necessary logical sequence of the studies is always required.

The courses for the degree of Pharmaceutical Chemist is the same as that for the degree of Graduate in Pharmacy, with a fifth term of advanced laboratory work added, occupying the student's full time.

The degree of Master in Pharmacy requires three years' full work in the College of Liberal Arts and five terms' work in the School of Pharmacy. Students having completed all the work required in the first three years of the course leading to the Bachelor's degree in the College of Liberal Arts may obtain the degree of Bachelor of Science upon the completion of the work of three terms (of fourteen weeks each) in the School of Pharmacy, and the degree of Master of Pharmacy follows upon the completion of all of the work for the degree of Pharceutical Chemist. The subjects taken at the College of Liberal Arts may be selected from English, German, Latin, Mathematics, French, Physics, Chemistry, Botany, and Zoology.

Matriculants for the degree of *Master of Pharmacy* take

the course for the degree of Pharmaceutal Chemist modified and enlarged to correspond with their preparatory college work.

SEPARATE COURSES IN ANY DEPARTMENT.

Any student may take any one or more of the separate courses given in this school at proportional fees, and will receive full credit for all such work when satisfactorily done. This applies both to the didactic courses and to laboratory work. But no student will be received into the school for a less period than one term.

Descriptions of the courses of study are given in the catalogue of the school.

Courses in Pharmacy, Botany, Inorganic Chemistry, Organic Chemistry, Qualitative Analysis, Quantitative Analysis, Organic Analysis, Pharmacography, Dispensing, Urine Analysis, Bacteriology, and other subjects may thus be taken in this school at the option of the student.

CREDITS.

Any student presenting proper evidence of having satisfactorily completed in any other good school any one or more of the courses of study or laboratory work included in the curriculum of this schol may, if desired, receive such credit therefor as may be consistent with the prescribed requirements.

Students of pharmacy who have completed the first year's work in any other pharmaceutical school may, at the discretion of the faculty of this school, be admitted to the senior class in the course for the degree of Graduate in Pharmacy.

EMPLOYMENT FOR STUDENTS.

Students who desire partial employment in drug stores during their college attendance to enable them to earn their expenses should send for the special circular relating to such employment. Students employed in drug stores should not attempt to do the weekly work of full-time students, but

should divide their studies so that the work done will bear a proper proportion to their available time.

Students who do not devote their whole time to their college work may elect their studies so far as may be consistent with proper sequence, and many attend the school from twelve to twenty-four hours weekly according to the time at their disposal.

BOARD AND ROOMS.

Very good board and room together can be secured near the school at from four to six dollars per week. Students may also secure rooms and board separately. Information in regard to these matters and addresses of reliable and satisfactory private boarding-places will be supplied at the college. Good accommodations are plentiful, and satisfactory arrangements can be quickly made by each student immediately upon his arrival. It is wholly unnecessary, and rarely advantageous to secure board and room in advance.

The Young Men's Christian Association of Chicago has a department office in this building for the Northwestern University professional schools. The Association assists students in securing desirable boarding-places, and the Department Secretary will be glad to furnish information in regard to the work of the Association, and render whatever assistance he can give to new students.

EXPENSES AND DEPOSITS.

The matriculation fee, payable only once and before registration, is $5. It is not returnable.

The tuition fee is $40 for each term of fourteen weeks.

Students taking partial, divided or special courses, including those partially employed in drug stores, are required to pay tuition fees corresponding to the amount of work taken.

The charge for materials (drugs, chemicals, etc.) consumed in the laboratory work is $5 per term.

To cover the cost of apparatus lost, destroyed or damaged, and any damage wilfully or needlessly inflicted to building,

furniture or other property, each student is required to make a deposit of $5 before being assigned tables in the laboratories. This deposit is intended to cover the whole term, and any balance remaining is returned to the student.

Text books, laboratory aprons, towels, filter paper, and any other articles not included in the outfits of apparatus, or not returnable, are furnished to the students at cost. But any student may purchase these books and articles wherever he sees fit.

The diploma fee, payable not later than two weeks before graduaton, is $10.

Individual lockers are rented to students at $1 each. That rental covers the whole period of the student's uninterrupted attendance, whether it be one, or two, or three terms.

For Catalogue and further information, address the Dean, Professor Oscar Oldberg, 87 Lake Street, Chicago.

THE DENTAL SCHOOL.

CHICAGO.

FACULTY.

EDMUND JANES JAMES, PH.D., L.L.D., *President of the University.*
GREENE VARDIMAN BLACK, M.D., D.D.S., SC.D., LL.D., *Dean, Professor of Operative Dentistry, Pathology and Bacteriology.*
THOMAS LEWIS GILMER, M.D., D.D.S., *Professor of Oral Surgery.*
JOHN SAYRE MARSHALL, M.D., *Professor Emeritus of Oral Surgery.*
ELGIN MAWHINNEY, D.D.S., *Professor of Special Pathology, Materia Medica and Therapeutics.*
EDMUND NOYES, D.D.S., *Professor of Dental Jurisprudence and Ethics.*
WILLIAM EDWARD HARPER, D.D.S., *Professor of Operative Technics and Assistant Professor of Operative Dentistry. Secretary of the Faculty.*
JAMES HARRISON PROTHERO, D.D.S., *Professor of Prosthetic Technics, Prosthetic Dentistry and Metallurgy.*
FREDERICK BOGUE NOYES, B.A., D.D.S., *Professor of Histology.*
TWING BROOKS WIGGIN, M.D., *Professor of Physiology and Pathology.*
VERNON JAMES HALL, PH.D., *Professor of Chemistry.*
GEORGE A. DORSEY, PH.D., *Professor of Comparative Anatomy.*
CHARLES LEWIS MIX, M.D., *Professor of Anatomy.*

FRED WILLIAM GETHRO, D.D.S., *Lecturer on Operative Technics.*
EUGENE S. WILLARD, D.D.S., *Lecturer on Bacteriology.*
IRA BENSON SELLERY, D.D.S., *Lecturer on Orthodontia.*
S. E. WRIGHT, *Lecturer on Anæsthesia.*

The Dental School was founded by men who believed that the practice of dentistry and that of medicine are so closely related as to make it necessary that students of dentistry should have thorough instruction in certain branches of medical science. The desire is to raise the standard of dental education as rapidly as is consistent with the means and ability of the majority of students who desire to be properly educated

for successful practice. The course of instruction is progressive, and extends over three years. Beginning with the matriculations for October, 1903, the course of instruction will be extended to four years.

REQUIREMENTS FOR ADMISSION.

In recent years a radical change has been made by dental schools in the methods of examination for admission. Formerly the examinations were made by the officers of the Dental Schools, but the Faculties' Association, at the Omaha meeting in 1898, passed a rule requiring that examinations be made by the legally constituted officers of instruction of the locality in which the applicant resides.

Therefore students desiring to matriculate in this school must bring with them credentials signed by a county or state superintendent of schools, a city superintendent of schools, or a principal of a high school.

These credentials must show the applicant to have progressed in his studies to the grade giving entrance to the third year of the high school in order to entitle him to matriculate in this school for the term beginning in October, 1903. These credentials will not be required of applicants who present diplomas from high schools or colleges.

ADMISSION TO ADVANCED STANDING.

Students who present certificates for courses taken in other recognized schools which cover subjects required in this school will be accredited with such studies if satisfactory to the professors in the respective departments.

THE NEW BUILDING.

The Dental School is located in the Northwestern University building. (See page 227.) The Dental School occupies the upper floors, except the chemical laboratories, which are on the second floor, and has over 60,000 square feet of floor space. This space is arranged especially for the purpose of teaching

dentistry, and is supplied with modern equipment for that purpose.

The Clinic Room, particularly, is of the best design and construction. It occupies the upper floor and has free light on two sides and abundant skylight. It is one room, with arched ceiling, sufficient in extent to accommodate the great clinic and the offices connected with it. It is reached by elevators from the principal entrance on Lake street and a smaller entrance on Dearborn street.

The situation and surroundings are especially good. The location is within the down-town loop of the elevated railways, and in close touch with all the principal surface and elevated lines. It is also within convenient walking distance of the excellent boarding-house district of the North side. This gives its students choice of place of residence anywhere in the city or its suburbs.

COURSE OF STUDY.

FIRST YEAR.

Anatomy, two recitations or lectures each week during the term.
Anatomy, dissecting the median half of the human body.
Physiology, Nervous System, two lectures each week.
Histology, one lecture each week.
Histology, laboratory, two hours each week.
Chemistry, lectures, two hours each week.
Chemistry, laboratory, three hours each week.
Operative Technics, three half-days each week.
Prosthetic Technics, three half-days each week.
Prosthetic Dentistry and Metallurgy, one lecture each week.
Quiz and study hours.

SECOND YEAR.

Anatomy, two recitations or lectures each week during term.
Anatomy, dissecting the median half of the human body.
Physiology, Nervous System, one lecture each week.
General Materia Medica and Therapeutics, one lecture each week.
Pathology, general, one lecture each week.
Chemistry, one lecture each week.
Chemistry, laboratory, three hours each week.
Organic Chemistry, one lecture per week.

Histology, general and dental, one lecture each week.
Histology, laboratory, two hours each week.
Prosthetic Dentistry, one lecture each week.
Operative Dentistry, two lectures each week.
Prosthetic Dentistry, laboratory and infirmary practice.
Operative Dentistry, infirmary practice.
Quiz and study hours.

THIRD YEAR.

Dental Pathology, special, two lectures each week.
Oral Surgery, one lecture each week.
Oral Surgery Clinics, two hours each week.
Orthodontia, one lecture each week.
Orthodontia Clinics, three hours each week.
Dental Jurisprudence and Ethics, about ten lectures.
Prosthetic Dentistry, one lecture each week.
Prosthetic Dentistry, infirmary practice.
Operative Dentistry and Bacteriology, two lectures each week.
Bacteriological Laboratory, three hours each week.
Operative Dentistry, infirmary practice.
Quiz and study hours.

METHODS OF INSTRUCTION.

Dental Technics.—Two special courses are given for manual training in the mechanical operations of dentistry, and a study of the anatomy and physical structure of the teeth.

Operative Technics.—In operative technics, the practical study of dental anatomy occupies the first part of the course. In this the student is made familiar with dental nomenclature as it relates to the teeth directly, and with the anatomical forms of every part of each human tooth. Afterward, dissections of the teeth are made and the anatomical forms of the pulp-chambers and root-canals are studied. Then follows a short course of study of the forms of the cutting instruments used in the preparation of cavities in teeth. This includes the philosophy of instrument forms and their adaptation to their special work. Following this, exercises are introduced in the preparation of cavities in natural teeth and a study of cavity forms and cavity nomenclature. Students receive a drill in the use and care of instruments, instrument grasps,

and the adaptation of special instruments to specific purposes. The exercises in the use and adaptation of the various filling materials are introduced together with exercises in filling root-canals. This course is intended to prepare the student to begin intelligently his clinical work in operative dentistry. The course occupies two and one-half hours per day, three days a week, during the first year.

Prosthetic Technics.—Syllabus.—Consists of taking impressions of the mouth, and the practical use of all the ordinary materials employed for that purpose; in the making and repairing of metal plates; and in the making of the simpler forms of shell crowns, followed by the preparation of porcelain and band crowns for the anterior teeth, and porcelain-faced crowns for bicuspids and molars, carefully shaped to the forms of natural teeth, and the assembling of crowns to make bridges. The operations are taken up consecutively, and every student is required to perform each one acceptably before proceeding to the next.

General Anatomy is begun in the first year and continued through the first and second years. The instruction is by recitations, quizzes, demonstrations, and lectures. The classes are subdivided into groups. Each of these groups is under a competent quiz master, who conducts recitations on lessons previously assigned. In the museum there are dissected specimens for the use of students. In the anatomical laboratory students are required, during two years, to dissect the median half of the body.

Physiology includes two lectures per week during the first year, and one lecture each week during the second year, under the direction of Professor Wiggin.

Dental Histology.—During the course in dental histology, practical inferences to be drawn from the study duly emphasized.

Recent developments in the study of the enamel have shown that a knowledge of the histology of this important structure is fundamental to the greatest success as an operator. It receives therefore special attention.

The dentine, dental pulp and mucous membrane of the mouth receive due attention. The student is made thoroughly familiar with the structure of the peridental membrane, the direction of its fibers upon various parts of the tooth, and their mode of attachment and reattachment, and blood and nerve supply. The periosteum and peridental membranes are compared and differences shown.

Photomicrography and Lantern Slides.—This school is now well equipped with photomicrographs and lantern slides made mostly from our own objects for use in class-work. In operative dentistry, comparative anatomy, orthodontia, oral surgery and other departments of study, the fullest practical use is being made of this excellent means of illustrative teaching.

Comparative Dental Anatomy consists of one lecture each week, followed by two hours in the museum, under Professor Dorsey. In the museum, the class is divided into convenient sections for the examination and study of specimens.

Chemistry.—The value to be derived from a good understanding of the science of chemistry as associated with dentistry cannot be overestimated. Elementary Chemistry, which continues throughout the first year, is taught by lectures, fully illustrated by experiments by the student in the laboratory. Particular attention is given to the metals and their ores, specimens of which are kept constantly before the class. In this course it is found best to follow a standard textbook, the plan being to assign work in advance of the lectures, so that when the student enters the lecture he has some preparation on the subject under discussion. First-year students are required to attend two lectures a week, in addition to three hours laboratory work.

Upon the opening of the second-year course the subject of Qualitative Analysis is taken up in the Chemical Laboratory, including abundant practice upon unknown mixtures and in the analysis of alloys, cement, teeth, etc.

Following this a thorough study of the various dental cements is made, including the testing of cements for injurious quantities of arsenic.

The subject of alloys is next taken up, with particular attention to those used in dentistry. More than two hundred alloys are made and examined, thus giving the student a thorough insight into the subject.

A course in solder-making is given, including the preparation of tin, gold, and silver solders. Gold and silver scraps are refined and used in making solders, or alloyed and rolled into plate.

Second-year students are required to spend three hours each week in the laboratory throughout the year.

A course in Organic Chemistry is also given during this year consisting of one lecture per week.

Before entering the Chemical Laboratory each student is required to make a deposit of $5.00 to cover chemicals used, breakage, and special printed directions furnished each student. It has been found by experience that the above deposit covers the average expenses of the student throughout the year. If, however, the student exceeds the deposit, he will be expected to pay the excess at the end of the course.

Materia Medica, studied in the second year, occupies one lecture each week under Professor MaWhinney. It is a separate course from that given in the third year, and includes a description of drugs, classified in accordance with their therapeutic effects and uses. The poisonous properties of drugs and their antidotes will be given, together with their therapeutic doses, prescription writing, and their curative employment. Especial attention is given to those drugs employed in dentistry, the descriptions of which are very full and complete, giving the origin, modes of preparation, physical properties and special forms of preparation for use. The poisonous properties are illustrated by experiments upon animals, as far as that is practicable, showing the special features of the poisonous effects of each and the manner of use and the results of the employment of antidotes.

There is also a very brief course in the second year in Special Pathology and Therapeutics, giving the subject-matter in outline as a preparation for the more complete studies of the third year.

Special Pathology and Therapeutics is presented in the third year by Professor MaWhinney, in two lectures each week during the term. This course includes that portion of operative dentistry which deals with pulp exposure, diseases of the dental pulp, alveolar abscess, diseases of the pendental membranes, etc.

Bacteriology is presented especially in its relations to dental pathology and dental practice. The student is made familiar with the general principles of the subject, with the nature of these growths, the place they occupy in nature, their physiological processes, how and where they grow, how they live, what they do, and how they produce disease. The difference between disease-producing and non disease-producing organisms is pointed out.

Orthodontia is taught both didactically and clinically. The didactic course consists of one lecture each week through the first semester, in which the subject is taken up systematically, proceeding from the normal occlusion to explain the abnormal arrangements and faulty occlusion of the teeth and of the irregular forms of the dental arch. These derangements of alignment of the teeth and the malforms of the dental arch are so classified as materially to assist the student in an understanding of them, and the means and mechanical arrangements of fixtures to bring the several classes of irregularities into normal form, or to the best possible form in individual cases in which the true normal cannot be successfully reached.

Oral Surgery.—Professor Gilmer, assisted by Drs. Wright, A. D. Black and necessary nurses has charge of the department of Oral Surgery. One lecture each week, one quiz each week and a clinic of one and a half to two hours per week is given during the term. The course embraces instruction in the general principles of surgery and their practical application to pathological conditions occurring about the mouth and face, giving special attention to diagnosis and recognition of conditions requiring surgical interference.

The whole clinical course is an exemplification of

aseptic and antiseptic surgery in its adaptation to, and uses in, the various phases of the surgical treatment of both accident and deliberate operative cases.

Anæsthesia is presented in detail by Dr. Wright in lectures, experimentally upon animals and in clinical illustration, embracing all of the agents used for the mitigation of pain. Nitrous oxide is exhibited daily in the extracting clinic, and ether and chloroform in the surgical clinic.

Professional Ethics and Dental Jurisprudence is presented by Professor Noyes, and occupies one lecture each week during the first semester. It consists of a brief statement of the more important principles of morals, followed by an exposition of the special duties and moral obligations of professional men in respect to their patients, toward their fellow practitioners, and toward the public, for the upholding of the honor and dignity of the profession.

The lectures on Jurisprudence, in the main, follow the text-book by Dr. Rehfuss. It includes qualifications and duties of expert witnesses, the importance of dental records, etc., the limitations of dental practice, the qualifications required, and the liabilities incurred by those who administer anæsthetics, the penalties that may be suffered, and the defense to be made in case of real, or supposed, malpractice, and the liability in case of infection from instruments. The requirements of the Illinois law and the laws of other states respecting the practice of dentistry, the steps necessary to become legal practitioners, the duties and liabilities of dentists with reference to the law, and other topics are considered.

Operative Dentistry.—The senior course in operative dentistry is given by Professor Black, assisted by Dr. Willard. The didactic course consists of two lectures each week for the greater part of the year. It consists in a brief review of the work done in the junior year, in the preparation of cavities and other manipulative procedures; but more essentially in a study of dental caries, the conditions of susceptibility and immunity to caries, its modes of attack, the means of its prevention, and the management of filling operations for the prevention of its

recurrence; also of the conditions under which extension of cavities for the prevention of the recurrence of caries should or should not be undertaken, the use of temporary fillings, especially for children, and the conditions for permanent operations for children; the reasons for special methods in different classes of cases, and the general adaptation of operative procedures as curative and preventive measures, etc. It is intended that this shall be an advanced course in the general management of operative procedures, the foundation for which has been laid in the freshman and junior years.

PRACTICE IN THE INFIRMARY.

The Operative Infirmary Clinic is under the direct supervision of Professor Black. The student begins this work with the beginning of his junior year, and continues it to the end of the senior year, the time given to it being much greater in the senior year. It is the intention that this infirmary practice shall be as much like an actual dental practice as it is possible to make it. The development of the ability to obtain and hold a practice, or that professional comity between an operator and his patients essential to personal success, is regarded as parallel in its importance to the future of the student with the development of manipulative ability.

This practice, however, is, and must be, under the direction of the demonstrators in all of its details, from the primary examination upon the entrance of the patient to the clinic-room to its completion.

The demonstrating force is assigned to sections of the clinic-room, and by a system of rotation each student comes successively under the direction of each demonstrator. The number of demonstrators is ample to give a large amount of personal attention to each individual student in his section, consulting with him, directing his operations in detail and demonstrating points that may be new or difficult as they present themselves. This personal teaching is made a special feature of this school, and great attention is given by the management to the drill of the demonstrating force, in order

that they may understand well their especial duties to the students and the methods of instruction adopted and maintained in the school, and that their direction and actions may be in harmony throughout their clinical teaching.

In this clinic, embracing several hundred patients per day, students have the opportunity to see and to study a wonderful variety of cases. They are made up of every variety of pathological condition, from the simplest deviation from the normal to the most grave conditions.

Summer Clinics.—The clinic-rooms are open all the year for the benefit of students who may wish to have greater experience in clinical practice under competent supervision. The number of demonstrators during the summer is ample for the class that may choose to remain with the school. The clinical material is abundant and a most excellent opportunity is afforded for clinical practice.

REQUIREMENTS FOR GRADUATION.

The degree of Doctor of Dental Surgery is conferred on such students as complete the course of instruction, having attended three courses of lectures and passed satisfactory examinations in the subjects of study. To be admitted to the degree, the student must be twenty-one years of age, and possess a good moral character. He must have paid all fees in full.

The monthly reports of the quizzes and the infirmary practice of the students will bear very materially upon their standing at all examinations.

EXPENSES.

The fees are payable in advance.

FIRST YEAR.

Matriculation Fee	$ 5.00
General Ticket	100.00
Histological Laboratory Ticket	5.00
Dissecting Fee (1 part)	10.00

SECOND YEAR.

Matriculation Fee	$ 5.00
General Ticket	100.00
Histological Laboratory Ticket	5.00
Dissecting Fee (1 part)	10.00

THIRD YEAR.

Matriculation Fee	$ 5.00
General Ticket	100.00
Final Examination Fee	20.00

Where it is so desired, the tuition fee may be divided into two parts, but in such cases an additional fee of $5.00 is charged. Where the fee is so divided, $65.00 must be paid on or before the 20th day of October, 1902, and $60.00 must be paid on or before the 20th day of January, 1903.

These conditions cannot be modified except upon the written consent of the proper officials of the University.

A fee of five dollars must be deposited to cover chemicals and breakage in the Chemical Laboratory.

Good board and rooms convenient to the school can be obtained at prices varying from three dollars and a half to five dollars a week, according to the accommodations; also, vacant rooms, without board, furnished or unfurnished, can be obtained at from six dollars to ten dollars per month.

For further information and special circular relating to the Dental School, address Wm. E. Harper, D.D.S., corner Lake and Dearborn Streets, Chicago, Illinois.

THE SCHOOL OF MUSIC.

EVANSTON.

FACULTY.

EDMUND JANES JAMES, Ph.D., LL.D., *President of the University.*

PETER CHRISTIAN LUTKIN, MUS. D., A.G.O., *Dean, Professor of Piano, Organ, Theory and Composition.*

HAROLD EVERARD KNAPP, *Director Violin Department, Professor of Violin and Ensemble Playing.*

SAIDEE KNOWLAND COE, *Professor of Piano and Musical History.*

ARNE OLDBERG, *Professor of Piano and Composition.*

KARLETON HACKETT, *Director Vocal Department, Instructor in Voice Culture.*

WILLIAM HENRY KNAPP, *Instructor in Voice Culture.*

WALTER KELLER, *Instructor in Piano and Organ.*

MARGARET CAMERON, *Instructor in Piano.*

ELIZABETH RAYMOND, *Instructor in Piano.*

ANTHONY STANKOWITCH, *Instructor in Clavier Method.*

HARLAN JOHN COZINE, *Instructor in Voice Culture, Sight-Reading and Choral Music.*

LEWIS RANDOLPH BLACKMAN, *Instructor in Violin.*

DAY WILLIAMS, *Instructor in Violoncello.*

CLARA MURRAY, *Instructor in Harp.*

ALFRED GEORGE WATHALL, *Instructor in Harmony.*

CHARLES JOSEPH KING, *Instructor in Clarinet, Oboe, and Bassoon.*

WILLIAM COLE, *Instructor in Flute.*

JOHN SKELTON, *Instructor in Cornet.*

IRVING HAMLIN, *Secretary.*

The School of Music was established in 1895. It continues on a larger scale the work of what was formerly known as the Department of Music.

The School offers extensive courses in the practical and theoretical study of music, and is designed to fit students for the profession as composers, theorists, artists, teachers, or

critics. It also makes provision for the study of music as a part of general culture or as an accomplishment.

The School occupies its own quarters, immediately to the north of Willard Hall, near the University Campus. This building was erected during the year 1897 for the especial needs of the music department, and is known as *Music Hall.* It is substantially built of stone and brick, surmounted with a tile roof and finished in Georgia pine.

The first floor contains the Dean's office, the business office, reception room, besides teaching and practice rooms. Additional classrooms are found on the second floor, together with a well-arranged concert-hall, seating three hundred and fifty. The hall is provided with a large stage, dressing-rooms, a grand piano, a two-manual pipe-organ with pedals, and is seated with opera-chairs. The practice-rooms are especially pleasant, being well lighted and heated.

Owing to the increased attendance the basement floor has been subdivided into eleven rooms, giving thirty rooms in all, exclusive of the concert-hall.

COURSES OF STUDY.

The following regular courses are offered:

I. Academic Literary-Musical Course.
II. Academic Musical Course.
III. Collegiate Musical Course, leading to the Degree of Graduate in Music.
IV. Theoretical Course.
V. Theoretical Course, leading to the Degree of Bachelor of Music.
VI. Post-Graduate Course.

REQUIREMENTS FOR ADMISSION TO THE REGULAR COURSES.

For Course I, no previous knowledge of music is necessary.

For Course II, moderate attainments, representing on an average one year's systematic training in singing, or two to three years' systematic training in instrumental music, are required. *This preparation, when needed, is supplied in the most thorough and direct manner in the School of Music itself.*

Course III is a continuation of Course II.

For Course IV, the requirements are a knowledge of the rudiments of music in regard to notation and rhythm, a reasonable familiarity with all major and minor keys, as well as with the key-board. The work is arranged in year courses (see schedule, page 263), and cannot be entered during the year unless the applicant for admission can pass an examination on the work already covered.

Course V is a continuation of Course IV.

SPECIAL STUDENTS.

The School also provides instruction from the elementary to the advanced stages for those not desiring to enter the regular courses, in which case no examinations or special requirements are necessary. Such students are known as *special students*, and may enter at any time for one term or the unexpired portion of the term.

DESCRIPTION OF COURSES OF STUDY.

I. ACADEMIC LITERARY-MUSICAL COURSE.

This consists of the four-year course in the Academy of Northwestern University, in which the study of Music is substituted for one-fourth of the required work. The studies include Latin, Physiography, Algebra, English, Grecian and Roman History, Greek, Biology, Plane Geometry, Physics, German, and French. Music is to be continuously and satis-

factorily pursued during the entire course, and at least two hours a day devoted to its study. The student will come under the jurisdiction of the Academy, and will receive its diploma upon passing the necessary examinations. For particulars see the circular of the Academy of Northwestern University.

II. ACADEMIC MUSICAL COURSE.

This course requires two years, and is intended to fit the candidate for elementary teaching. Upon the completion of sixty hours' credit, a certificate is given. By an *hour of credit* is understood the satisfactory performance of work equivalent to one exercise a week during a semester. The credits are divided as follows:

FIRST YEAR.

(*Freshmen.*)

	Semester Hours.
Harmony A	2
Musical History G	2
Sight-reading and Dictation	1
Keyboard Harmony	1
Instrumental Sight-reading	1
English A (Academy)	3
Applied Music	5

SECOND YEAR.

(*Sophomore.*)

	Semester Hours.
Harmony B	1
Musical Form C	1
Counterpoint D	2
Analysis	1
Keyboard Harmony and Accompaniment	1
Modern Language or English B (Academy)	4
Applied Music	5

NOTE.—By applied music is meant the study of piano, organ, violin, or voice, in which two lessons a week are taken.

III. COLLEGIATE MUSICAL COURSE.

This is a continuation of Course II, and is designed to equip the candidate for professional work. Sixty additional

hours credit are required, which lead to the Degree of Graduate in Music. The credits are as follows:

NOTE.—For schedule of theoretical courses, and for courses counting towards a degree in the College of Liberal Arts, see pages 115.

THIRD YEAR.

(*Junior.*)

	Semester Hours.
Harmony K	2
Analysis L	2
Counterpoint E	1
Canon and Fugue F	1
English Language, English Literature, or Modern Language (College of Liberal Arts)	4
Applied Music	5

FOURTH YEAR.

(*Senior.*)

	Semester Hours.
Ensemble Playing	2
Reading from Score	1
English Literature (College of Liberal Arts)	3
Modern Language (College of Liberal Arts)	4
Applied Music	5

NOTE.—Courses in the College of Liberal Arts can be taken only by those who are able to meet the college entrance requirements. See p. 53.

In addition, candidates must satisfactorily perform programs conforming to the following requirements:

For Piano Students:

A concerto of advanced difficulty.
One of the later Beethoven sonatas.
A prelude and fugue (five-voiced) from Bach's Well-tempered Clavichord.
Two Chopin Etudes.
Selections from the more important works of Schumann and Brahms.

For Organ Students:

One of the great preludes and fugues of Bach.
A sonata of Guilmant or Rheinberger.
Selections from the works of Thiele, Widor, Merkel or Franck.

For Violin Students:

A Bach sonata.
A concerto.
A modern sonata for piano and violin.
Two solo pieces.

For Vocal Students:

An operatic aria.
An aria from Handel's Messiah or Haydn's Creation.
An aria from a modern oratorio.
Group of songs from Brahms, Jensen, Schumann, Schubert, or Franz.

IV. THEORETICAL COURSE.

This course is intended for composers or theorists, and calls for sixty hours' credit drawn from Course II and the first year of Course III. It requires three years, and the credits for applied music are not allowed. A certificate is given upon its completion.

V. THEORETICAL COURSE LEADING TO THE DEGREE OF BACHELOR OF MUSIC.

This course is open only to candidates who have completed Course IV, with distinction, and who have evinced decided creative ability. An additional year's work is required covering the subjects of Canon and Fugue, Instrumentation, Free Composition, and Physics, more particularly in its relation to the phenomena of sound. Candidates are required to compose a work of some length for chorus and orchestra, introducing solos and a tonal fugue. Moreover, they must also prove their knowledge of English, Mathematics, and one foreign language, either classical or modern.

VI. POST-GRADUATE COURSE.

This course gives further opportunity to students for pursuing their studies either in preparation for artistic concert

performance or to extend their knowledge of the classical literature of applied music. In its broadest sense music presents an almost limitless field for study, and graduates can enter this course most profitably.

CERTIFICATE OF PERFORMANCE.

To students who have studied at least two years in the School and can creditably perform a programme in their specialty, a Certificate of Performance, stating the degree of proficiency, will be given. To Piano students the minimum requirements are as follows:

Beethoven, a complete sonata.
Bach, a fugue or three-voiced invention.
Mendelssohn, Schumann, and Chopin, characteristic pieces of average difficulty.
Two selections from more modern composers.

To Organ Students:

Bach, prelude and fugue.
Mendelssohn, sonata complete.
Two groups of pieces drawn from the modern English and French schools.

To Violin Students:

A sonata for piano and violin from Haydn, Mozart, or Beethoven.
A group of solo pieces of average difficulty.

To Vocal Students:

An oratorio aria.
A group of songs from the classic composers.
A group of songs from modern composers.

DIPLOMAS AND CERTIFICATES.

Upon recommendation of the Faculty, diplomas will be given to students completing Course III or Course V, and certificates to those completing Course II or Course IV. The fee for a diploma is $8.00; for a certificate, $5.00.

FREE ADVANTAGES.

The classes in Sight-reading and Elementary Harmony, the Chamber Music and Faculty Concerts (excepting the Artists' Series), numerous recitals, and lectures in the School of Music and other departments of the University are free to the students of the Music School.

FEES AND EXPENSES.

For students taking the regular courses a fixed fee by the term is charged as noted below. This entitles them to two half-hour private lessons a week (instrumental or vocal, as the case may be), from the head teachers, and the required classes in harmony, musical history, sight-reading, counterpoint, musical form and, analysis. Students not taking full work will find the fees tabulated under the heading "Special Student Fees."

Matriculation Fee—A matriculation fee of five dollars is charged on entering the *regular courses.* It is paid but once.

The school year is divided into two semesters of eighteen weeks each, the semesters being, subdivided into two terms of nine weeks each, thus making four terms of nine weeks each in the school year.

TERM FEES.

For Courses II, III, or VI, including two half-hour private lessons a week under leading instructors (with the exception of the Director of the Vocal Department) per term - - - - - - - - - - - -	$45 00
With lessons in Voice Culture from the Director of the Vocal Department, per term - - - - - - - -	55 00
For Courses IV and V, per term - - - - - - -	15 00

For Course I, students pay the full Academy tuition fee of $48 a year, and in addition, for musical tuition, as per "Special Student Fees," minus a rebate of $16 a year.

SPECIAL STUDENT FEES.

PRIVATE LESSONS.

	Two half-hour lessons a week.	One half-hour lesson a week.
Prof. P. C. Lutkin (Piano or Organ), per term,	$45 00	$25 00
Karleton Hackett (Voice), per term,	54 00	30 00
Prof. S. K. Coe (Piano), per term,	36 00	20 00
Prof. Arne Oldberg (Piano), per term,	36 00	20 00
H. J. Cozine (Voice), per term,	40 00	22 00
Prof. H. E. Knapp (Violin), per term,	27 00	15 00
W. H. Knapp (Voice), per term,	27 00	15 00
Day Williams (Violoncello), per term,	27 00	15 00
Margaret Cameron (Piano), per term,	27 00	15 00
Walter Keller (Piano or Organ), per term,	20 00	11 00
Elizabeth Raymond (Piano) per term,	20 00	11 00
L. R. Blackman (Violin), per term,	18 00	10 00
Mrs. Clara Murray (Harp), per term,	36 00	20 00
A. G. Wathall (Theory), per term,	18 00	10 00
W. Z. Cole, (Flute), per term,	18 00	10 00
C. J. King (Clarinet), per term,	18 00	10 00
John Skelton (Cornet), per term,	18 00	10 00

CLASS LESSONS.

	Per Term.
Full Theoretical Course,	$15 00
Half Course,	8 00

COACHING LESSONS IN KEYBOAD HARMONY OR INSTRUMEMTAL SIGHT-READING.

	Per Term.
Class of Two,	$ 5 00
Private Lessons,	10 00

VOICE CULTURE CLASSES.

In Class of Five,	$10 00
In Class of Ten,	5 00

OTHER CLASSES.

Ensemble Class,	$5 00
Physical Culture Class,	5 00
Sight-reading Class (to students taking no other work),	1 50

PIANO PRACTICE.

Each hour of daily practice per term,	$2 50

ORGAN PRACTICE.

Each hour of daily practice, including blowing, per term,	$10 00
Pedal piano, - - - - - - - - - - - -	5 00

NOTE.—A discount of twenty-five per cent is allowed to the immediate members of a minister's family for private lessons. It is not allowed for class instruction or practice.

Tuition is payable *strictly in advance* at the University office, 518 Davis street. Checks may be drawn payable to Dr. Robert D. Sheppard, Treasurer and Business Agent of the University.

Lessons falling upon legal holidays, or missed through fault of student, are only made up at the convenience of teacher. No deductions will be made to pupils for absence from lessons. In cases of protracted illness, when due notice is given, the lessons missed will be transferred to a subsequent term or the loss divided with the student.

PREPARATORY DEPARTMENT.

A Preparatory Department is maintained by the School where excellent instruction may be obtained in piano, organ, voice, or theory from capable graduates. The terms coincide with those of the regular school, being nine weeks in length. Tuition rates are $12.00 and $15.00 per term for two half-hour lessons per week, $7.00 and $8.50 for one lesson per week. For particulars see special circular.

For further information and special circular relating to the School of Music, address Professor P. C. Lutkin, Dean, Evanston, Ill.

THE ACADEMY.

EVANSTON.

FACULTY.

REV. HERBERT FRANKLIN FISK, D.D., LL.D., *Principal.*
REV. JOSEPH L. MORSE, A.M., *Assistant Principal.*
JOHN ADAMS SCOTT, Ph.D., *Professor of Greek.*
ADA TOWNSEND, A.M., *Instructor in Latin.*
JULIA E. FERGUSON, *Instructor in Drawing.*
CLARA GRANT, Ph.B., *Instructor in English.*
WALTER DILL SCOTT, Ph.D., *Assistant Professor of Pedagogy and Psychology, Supervisor of Practice Teachers in Academy.*
CARLA FERN SARGENT, A.B., *Instructor in History.*
HENRY LEDAUM, A.B., *Instructor in French.*
*EDWIN ALMON GREENLAW, A.M., *Instructor in English and in Methods of Teaching.*
JOHN HENRY PETRIE, B.L., *Instructor in Geometry.*
*ANN ESTELLE CARAWAY, Ph.B., *Instructor in German.*
WILLIAM H. LESLIE, A.B., *Instructor in Latin.*
JANE NEILL SCOTT, A.B., *Instructor in Greek and Latin.*
ETHEL M. BATES, B.L., *Instructor in German.*
FRANKLIN J. TRUBY, A.B., *Instructor in Physics and Manual Training.*
GEORGE WESTON BRIGGS, B.S., *Instructor in Algebra.*
MYRON J. ABBEY, A.B., *Instructor in Biology.*
FESTUS EDWARD OWEN, A.B., *Instructor in Greek.*
HIRAM ERE RUSSELL, A.B., *Instructor in English.*
WILLIAM P. BATES, Ph.B., *Instructor in Algebra and Athletic Director.*
ISABEL R. MORSE, Ph.B., *Office Secretary.*

The Academy is located on the Campus in Evanston, and occupies Fisk Hall, which was erected for its purposes in 1898.

The special work of this school is to prepare young men and young women for admission to any College of Liberal Arts.

*On leave of absence.

Besides the special work of preparing students for college, a general academic education is given to those who cannot take a regular course, but wish to prepare themselves for the study of law or of medicine, or for teaching in the public schools, or for business.

The course of study extends through four years. Students who give satisfactory evidence of having done thoroughly a part of the course before entering will be credited with that work. Students completing the course are admitted to the College of Liberal Arts on the certificate of the Principal.

The Academy provides instruction adequate for admission to college in the English, French, German, Latin and Greek languages, in Mathematics, History and Civics. It has a well-equipped Manual Training plant, and ample rooms completely furnished with apparatus for laboratory instruction in Mechanical and Electrical Physics, Zoology, Botany, and Physiography.

Five literary societies, three for young men and two for young women, have their homes in well furnished parlors in the Academy building and all of them are zealously at work. Two Christian Associations maintain weekly meetings and in many ways serve the interests of the body of students. They invite all who will into their membership.

The departments of instruction are immediately supervised by the corresponding departments of instruction in the College of Liberal Arts. Those who wish to join with Academic studies, courses in Music or in Elocution, have convenient access to those departments, in which unsurpassed advantages are offered.

For further information concerning the Academy, application should be made to Rev. Herbert F. Fisk, D.D., LL.D., Academy, Evanston.

GRAND PRAIRIE SEMINARY.

Grand Prairie Seminary is an affiliated, preparatory school of the University. It was founded in 1863 and affiliated with Northwestern University in 1901.

It is situated in Onarga, Ill., on the main line of the Illinois Central Railway, eighty-four miles south of Chicago. The town is an ideal place for a school. It has no saloons and the community generally is noted for its high moral tone. It has good churches and a fine Public Library, which is at the disposal of the members of the school community.

The equipment of the Seminary consists of three buildings, a Recitation Hall for class instruction, the Auditorium for public exercises, and the Ladies' Dormitory and Boarding Hall. The school has a Library of one thousand carefully chosen volumes of standard works of reference on Science, History, Biography and Literature. It has laboratory facilities for instruction in Physics, Zoology, Botany and Chemistry.

The Seminary offers courses in the Academic Department, Normal Department, School of Business, School of Music, Department of Oratory, and Art Department.

The Faculty consists of eleven thoroughly trained and experienced instructors, who are graduates of leading Colleges and Universities.

For further information and full particulars apply to Rev. Frank G. Barnes, Principal, Onarga, Ill.

SCHOOLS OF THEOLOGY.

GARRETT BIBLICAL INSTITUTE.

Rev. Charles Joseph Little, Ph.D., LL.D., *President, and Professor of Historical Theology.*

Rev. Milton Spenser Terry, D.D., LL.D., *Professor of Christian Doctrine.*

Rev. Solon Cary Bronson, D.D., *Professor of Practical Theology and Registrar.*

Rev. Charles Macaulay Stuart, D.D., *Professor of Sacred Rhetoric and Secretary of Faculty.*

Rev. Doremus Almy Hayes, Ph.D., D.D., *Professor of New Testament Exegesis.*

Rev. Nels E. Simonsen, D.D., *Principal of Norwegian-Danish Theological School.*

Rev. Frederick Carl Eiselen, A.M., B.D., *Professor of Semitic Languages and the Literature of the Old Testament.*

Robert McLean Cumnock, A.M., *Professor of Rhetoric and Elocution.*

William Caldwell, Sc.D., *Lecturer on Social Philosophy.*

Rev. John J. Rapp, B.D., *Instructor in Greek and Hebrew, and Assistant Librarian.*

Garrett Biblical Institute, chartered in 1855, is a theological seminary which has, since 1856, been in close coöperation with Northwestern University. It is situated in Evanston, upon the University campus, and is open to young men from any evangelical church who are properly recommended as candidates for the Christian Ministry. It was established especially as a seminary where young men of this class from the Methodist Episcopal Church might be educated. It is supported by income from property in the city of Chicago, bequeathed in 1853, as a perpetual foundation, by Mrs. Eliza Garrett. It invites to its care and instruction young men in the Church whom God has called to be His ministers.

REQUIREMENTS FOR ADMISSION.

Students not licensed to preach are received on the recommendation of their respective quarterly conferences, or temporarily, in failure of this, on a note from their pastor, promising the recommendation in due time. The form of recommendation authorized by the General Conference of the Methodist Episcopal Church is as follows:

"We, the members of the Quarterly Conference of----------hereby express our judgment that----------is called of God to the work of the ministry, and we recommend him to the care and instruction of the Garrett Biblical Institute."

Applicants from other churches will need to bring such certificates as are usually given by the denominations to which they belong. Students from other theological seminaries may be admitted *ad eundem* on presenting satisfactory testimonials of equivalent work and honorable dismission.

INSTRUCTION.

Those who enter the courses of instruction should have a thorough preparation. The College of Liberal Arts offers its advantages to those who require this preparation.

The aim is to embrace all departments of Theological Encyclopedia, as indicated in the following scheme:

A. EXEGETICAL THEOLOGY.

1. *Biblical Philology*—Hebrew and Greek Languages, and their cognates.

2. *Biblical Introduction*—Canonics, Criticism (Higher and Lower) Sacred Literature.

3. *Biblical Archæology*—Chronology, Ethnology, Geography, Antiquities.

4. *Hermeneutics*—(1) *General:* Study of Words, Grammatical Forms, Styles, etc. (2) *Special:* Study of Figurative Language, Parables, Allegories, Types, Symbols, Prophecy, Apocalyptics.

5. *Exegesis*—Critical and expository study of the several books of the Bible.

6. *Biblical Theology*—Development of Biblical Doctrine as distinct from Historical and Systematic Theology.

B. HISTORICAL THEOLOGY.

1. *Sources*—Canonical and Apocryphal books of the Bible, Pseudepigraphal books, sacred books of all nations, Archæological Monuments, Patristics, Symbolics, Liturgics, and Hymnology.

2. *External Development of the Kingdom of God*—Pre-Christian History of Israel and the Nations. Patriarchal period, Mosaic. Priestly, Regal, and Prophetic development, and Post-exilian Judaism, life and work of Christ, the Apostolic Age, and ancient, mediæval, and modern periods of the Christian Church.

3. *Internal Development*—Religious life and thought of the Church, progress of the same through the centuries, History of Doctrines, Comparative Religion and Theology, and Sociology.

C. SYSTEMATIC THEOLOGY.

1. *Metaphysics*—Psychology, Ontology.

2. *Apologetics*—Evidences and Defenses of Revelation.

3. *Dogmatics*—Doctrine of God and Christology, Anthropology, Soteriology, Eschatology.

4. *Polemics*—The great issue of Theological Controversy.

5. *Irenics*—Methods of Conciliating Theological Differences.

6. *Ethics*—Theoretical, Practical.

D. PRACTICAL THEOLOGY.

1. *The Ministry as an Institution*—Its Call, Functions, Qualifications, Preparation, Maintenance, Perils, Safeguards.

2. *Homiletics*—History, Science and Art of Preaching, Praxis, Homiletical Study of Great Preachers.

3. *Liturgics*—Forms of Worship, Conduct of Services, Administration of the Sacraments.

4. *Ecclesiastical Polity and Law*—Forms of Church Government, Judicial Administration, Discipline.

5. *Pastoral Theology*—(1) *Catechetics:* Training of Children and Probationers, Educational Functions of the Church, Sunday-schools, etc. (2) *Poimenics:* Pastoral Care, Shepherding the Flock, Details of the Pastoral Office. (3) *Church Activities:* Adaptation of the Machinery of the Church to Existing Needs, Benevolent Work and Social Life of the Church, Employment of Lay Agencies, Study of Other Religious Institutions in Their Relations to Our Own.

6. *Halieutics*—Evangelistic Methods, the Work of extending the Kingdom within the Christian Community, Missions—Domestic and Foreign.

COURSES OF STUDY.

Two courses of study are offered, as shown in the schedule below:

I. DEGREE COURSES.

There are two Degree Courses: one leading to the degree of B.D., the other to the degree of Ph.D.

1. *The B.D. Course.*—This is a three years' course arranged for classical graduates of approved colleges. Applicants, upon registration, are required to present their diplomas. Students, not graduates of colleges, may be admitted to this course, if, by examination not later than the close of the first term, they satisfy the Faculty of their classical and literary fitness to complete it. The degree of Bachelor of Divinity is conferred upon all who complete the course to the satisfaction of the Faculty.

2. *The Ph.D. Course.*—By an arrangement with the College of Liberal Arts of this University, the Institute is now able to offer to college graduates a resident course of study leading to the Degree of Doctor of Philosophy. Students are admitted to this course upon terms stated on page 145.

Of the four years required as a *minimum* for the degree of Ph.D., three at least must be spent in residence at a theological school of high standing, and the last two at Garrett Biblical Institute.

II. DIPLOMA COURSES.

1. *The Greek and Hebrew Course.*—This course is intended for those who desire to read and understand the Scriptures in the original, and yet are not prepared to do the work of the Degree Course. Greek is taught during three years, beginning with the elements. Hebrew is taught during the second and third years, beginning with the elements. The Greek class in exegesis read the Synoptic Gospels and the Acts in the Senior year. The Hebrew class read the poetical books of the Old Testament. In the other departments the work of this course is nearly the same as that of the Degree students.

2. *The Greek English Course.*—In this course English exegesis is substituted for Hebrew. It is in other respects the same as the Greek and Hebrew Course.

3. *The English Course.*—In this course training in the English Language, in Rhetoric, Logic, and Psychology takes the place of the study of elementary Greek and Hebrew, and English exegesis of the Scriptures is given instead of the study of the poetical books in Hebrew and of the Synoptic Gospels and Acts in Greek. The characteristic work of this course is in charge of Professors Stuart, Hayes, and Eiselen, who have been selected by the trustees as men exceptionally fitted for the task. In the departments of Systematic, Historical, and Practical Theology, Elocution, and Sociology, the studies of the English Course are the same as in other diploma courses.

Students who complete either of these courses receive the diploma of the Institute. Three years are required for any one of them. Applicants for admission must present certificates from approved high schools or academies, otherwise they must pass a satisfactory examination in the studies prescribed by the Bishops for those who seek admission to an annual conference. [See Discipline, 1896, page 369.]

College Graduates enjoy here exceptional advantages. In several departments, conspicuously in the Exegetical and Historical, they are formed into separate classes. They are encouraged and helped to special investigation, and receive from their professors continued personal attention in their chosen line of study. They have access, also, by the courtesy of the University, to any classes of the College of Liberal Arts for which they have time and aptitude.

Diploma Students are accorded the largest privilege of election. They may devote their energies to the studies for which they are best adapted, assured that in either of the three Diploma Courses they will receive thorough instruction, be held firmly to high standards, and be trained carefully for the work of the ministry.

METHOD OF INSTRUCTION.

The method of instruction is by recitation and lectures and free discussion. Great emphasis is laid upon instruction in elocution. Hence a course of training extending through three years is required of those who graduate. It is confidently proposed that every student who completes this work shall acquire a correct, forcible, and graceful elocution.

In addition to the instruction by recitation, lectures, and free discussions in the classrooms, public lectures and addresses by distinguished persons are also given before the Faculty and students, covering all the topics which relate to the work of Christian scholars and pastors.

LIBRARIES.

The number of volumes in the Institute and University Libraries—the one for daily working use and the other for free reference—is about sixty-five thousand.

Reading-rooms are connected with both, and supplied with the important dailies, weeklies, monthlies, and quarterlies in general and theological literature.

LITERARY SOCIETIES.

The Literary Department of the Institute Christian Association aims to stimulate theological and literary studies by exercises in composition, criticism, and extemporaneous speaking.

The Missionary Department of the Institute Christian Association seeks, by its weekly meetings and by occasional public meetings and lectures by returned missionaries and others, to promote information on Home and Foreign Missions, and to keep alive the missionary spirit among the students.

BUILDINGS.

Heck Hall.—The rooms in Heck Hall are in suites, consisting of study, bed-room, and wardrobe, and are furnished with tables, book-cases, bureaus, stands, chairs, bedsteads, and

mattresses. Students supply their own pillows, pillow-cases, sheets, bed-coverings, towels, crockery, and small articles.

Memorial Hall.—The Memorial Hall contains a large chapel, library, and reading-room, six lecture-rooms, with private rooms for professors, and a fire-proof vault for valuable books and papers. Both halls are heated by steam.

FINANCIAL AID.

Young men who have learned to earn and save money often work their way unaided through college and the theological school. The means of self-help in and around Evanston are but casual; yet a truly earnest and persevering student, with tact and helpfulness, many times finds, and even creates, opportunities for himself. To these help is rendered as far as practicable. Some sixty or seventy appointments have been made available to competent preachers among the students. Circumstances require that promises of aid be made with caution, and to the extent only of the ability to meet them. The institution covets consecrated young men who never quail in the presence of difficulties, and in every practical and useful way its aim is to aid them. The Board of Education of the Methodist Episcopal Church, located at New York, renders very efficient help by its judicious system of loans.

The Sarah Stewart Fund, yielding four hundred dollars a year, is for the benefit of approved candidates for missionary fields.

EXPENSES.

Tuition and room-rent are free of charge to regularly entered theological students. When occupying a room in Heck Hall, each student is charged an incidental fee of twenty dollars, payable half-yearly in advance, for curator's service, fuel for public rooms, and general repairs. When not occupants of Heck Hall, students pay (half-yearly in advance) a fee of five dollars a year.

NOTE.—Rooms in Heck Hall not occupied by regularly entered

theological students can be used (subject to rules for conduct and residence) by students recommended for the ministry, who are connected with any of the departments of the University, and who intend to take the theological course in this institution, on condition that each occupant of a room pay thirty dollars a year, half-yearly in advance.

For further information and special circular relating to the Garrett Biblical Institute, address President Charles J. Little, Ph.D., LL.D., Evanston, Ill.

NORWEGIAN-DANISH THEOLOGICAL DEPARTMENT.

A close relation has been established between Garrett Biblical Institute and the Norwegian-Danish Theological School, located at Evanston, under the principalship of the Rev. Nels E. Simonsen, A.M., D.D. By this arrangement the students of the Norwegian-Danish Department may take the entire course of study of the Institute, substituting instruction in one or more branches in their own tongue under Principal Simonsen. Upon the satisfactory completion of the course thus pursued, they will be graduated from the Institute. This department is established to prepare men for the ministry among the Norwegian and Danish people, and offers its students an opportunity to pursue their theological studies in the English and Norwegian and Danish languages. The course of study extends through three years. Oral and written examinations are held at the close of each year, and those who complete the entire course in the Norwegian-Danish language are granted a certificate. Students are received on the recommendation of their respective conferences. A commodious and substantial building, containing dormitories and a dining-hall, has been erected by the Norwegian and Danish people for the use of students of this department.

Those desiring information respecting the Norwegian-Danish Department should address Rev. Nels E. Simonsen, D.D., Principal, Evanston, Ill.

SWEDISH THEOLOGICAL SEMINARY.

This school of theology began its work in 1870 at Galesburg, Ill. In 1882 it attained a permanent home in Evanston, Ill., where it is now established in a commodious building, and where facilities exist for obtaining access to the different departments of the University. It is under the supervision of the four Swedish Conferences in the United States.

It is the only school of its kind in the Methodist Episcopal Church, and from its ranks of students preachers are sent out to nearly every state in the Union. More than one hundred ministers have been educated in the school since its beginning, and are laboring faithfully in different parts of the country.

The aim of this school is to do practical work in helping men toward success in the ministry. It was called into existence to meet the urgent and increasing demands for educated pastors and missionaries among the Swedish population in the United States, which numbers more than a million souls. Its course of study is broad and practical; its ideals are high; its work is thorough; its methods are systematic, clear, and simple.

The Seminary is supported by the income from an educational fund, collected mainly among the Swedish Methodist churches in the Northwest.

The regular course of study in the seminary requires four years. The students' progress in their studies is determined by examination, both written and oral; and after a satisfactory completion of the full course they receive the Seminary diploma. There is no charge for tuition.

Students are received on the recommendation of their respective Quarterly Conferences.

Those desiring information respecting the Swedish Theological Seminary should address Rev. Albert Ericson, A.M., D.D., Evanston, Ill.

CATALOGUE OF STUDENTS

FOR

THE YEAR 1902–1903.

COLLEGE OF LIBERAL ARTS.

CANDIDATES FOR ADVANCED DEGREES AND OTHER GRADUATE STUDENTS.

FELLOWS.

Dike, Paul Harrison, *Physics*, *Nunda.*
B.S., Northwestern University, 1901.

Knowlton, Ansel Alphonso, *Physics*, *Northfield, Minn.*
A.B., Bates College, 1898.

Owen, Festus Edward, *Greek*, *Mokena.*
A.B., Northwestern University, 1902.

Shinn, Harold Brough, *Zoölogy*, *Evanston.*
A.B., Northwestern University, 1901.

Tayler, Mary Ellen, *Botany*, *Green Bay, Wis.*
B.S., Northwestern University, 1900.

RESIDENT GRADUATE STUDENTS.

Asher, Walter Simpson, *History*, *Hutchinson, Kan.*
A.B., Northwestern University, 1895.

Baker, Abram Laurel, *Philosophy*, *Deselm.*
Black Hills College, 1895.

Barry, Florence S., *English Literature*, *Wilmette.*
A.B., Smith College, 1893.

Bates, William Penn, *Geology*, *Providence, R. I.*
Ph.B., Brown University, 1902.

Bedford, Edgar Alden, *Zoölogy*, *Chicago.*
B.S., Ohio Wesleyan University, 1895.

Berg, Martin John, *Economics*, *Madison, Wis.*
B.L., University of Wisconsin, 1901.

Bodwell, Jessie Winnifred, *English Literature*, *College Springs, Ia.*
B.S., Amity College, 1899.

Bodwell, Mell Pierce, *English Literature*, *College Springs, Ia.*
B.S., Amity College, 1899.

Boot, Estelle Bennett, *History*, *Evanston.*
B.L., University of Dakota, 1896.

Bowerman, Elma, M., *English Literature*, *Victor, N. Y.*
B.S., Michigan Agricultural College, 1902.

Brewrink, John Edward, *Mathematics*, *Blanchard, Ia.*
Ph.B., Northwestern University, 1902.

Briggs, George Weston, *Mathematics*, *North Branch, Mich.*
B.S., Northwestern University, 1902.
Carlson, Alma Sophia, *English Language*, *Evanston.*
Ph.B., Northwestern University, 1902.
Congdon, Elizabeth, *Political Economy*, *Evanston.*
A.B., Bryn Mawr, 1902.
Crippen, Grace, *History*, *Lanark.*
Ph.B., Northwestern University, 1896.
Eschbach, Jesse Ernest, *Constitutional Law*, *Warsaw, Ind.*
Ph.B., Otterbein College, 1896.
Foote, Edna Bigelow, *German*, *Evanston.*
A.B., Wellesley College, 1900.
Freeman, Milton Sterner, *Allentown, Pa.*
B.D., Garrett Biblical Institute, 1902.
Haist, Frederic William, *Hebrew*, *Evanston.*
A.B., Northwestern University, 1902.
Kinsey, Frank Cameron, *Bacteriology*, *Grand Rapids, Mich.*
A.B., University of Michigan, 1901.
Lamar, Clyde P., *Constitutional Law*, *Oskaloosa, Ia.*
B.S., Northern Illinois Normal School, 1893; A.B., Valparaiso College, 1897.
Laufman, William, *Hebrew*, *Traverse City, Mich.*
A.B., 1887, A.M., 1890, S.T.B., 1894, DePauw University.
Layton, Edgar Nelson, *Bacteriology*, *Montrose, Colo.*
A B., Colorado College, 1900.
Lehmann, Harriet, *Zoölogy*, *Neosha, Wis.*
A.B., Ripon College, 1902.
Little, Helen Merina, *French*, *Evanston.*
A.B., Woman's College of Baltimore, 1899.
Low, Isabel R., *English Language and Greek*, *Evanston.*
A.B., Northwestern University, 1902.
Lymer, John Charles, *Mathematics*, *College Springs, Ia.*
A.B., Amity College, 1898.
Matthews, J. Scott, *Constitutional Law*, *Chicago.*
A.B., University of Michigan, 1901.
Melzer, Lulu K., *Latin*, *Glenview.*
A.B., Northwestern University, 1902.
O'May, James, *History*, *Evanston.*
Simpson College, A.B, 1900, A.M., 1902.
Parsons, Charles Wesley Darwin, *Physics*, *Evanston.*
A.B., Cornell University, 1897.
Royse, Clarence Dille, *Philosophy*, *Rensselaer, Ind.*
A.B. and S.T.B., DePauw University, 1897.
Ruff, Fred, *German*, *Chicago.*
A.B., German Wallace College, 1902.
Rush, Raymond, *History*, *Mt. Vernon, O.*
A.B., Baldwin University.
Schreiber, Thomas, *German*, *Potter, S. Dak.*
Ph.B., Northwestern University, 1901.

Schryver, George Orin, *German*, *Fisher's Landing, N.Y.*
A.B., Cornell University, 1897.
Scott, Jennie Neill, *Greek*, *Evanston.*
A.B., Northwestern University, 1900.
Smith, Harris William, *Philosophy*, *Marion, Ia.*
A.B., Cornell College, 1894.
Smyth, Anna K., *German*, *Evanston.*
A.B., Wellesley College, 1896.
Tompkins, Ginevra Freeman, *Latin*, *Evanston.*
A.B., Northwestern University, 1896.
Truby, Franklin Jesse, *Physics*, *Maple Park.*
A.B., Northwestern University, 1901.
Ullrick, Delbert Sylvester, *Philosophy*, *Carson City, Nev.*
A.B., Northwestern University, 1902.
Welch, Ida, *Zoölogy*, *Evanston.*
A.B., Northwestern University, 1902.

NON-RESIDENT GRADUATE STUDENTS.

Aylesworth, William Wild, *History*, *Norwood, Mich.*
A. B., Northwestern University, 1894.
Benn, Hester Eliza, *English Literature*, *Omaha, Neb.*
Ph.B., Northwestern University, 1901.
Burchard, Ernest Francis, *Geology*, *Evanston.*
B.S., Northwestern University, 1900.
Ely, Harriott B., *History*, *Berwyn.*
Ph.B., Northwestern University, 1902.
Fisher, Henry B., *History*, *Rushville.*
A.B., Northwestern University, 1896.
Frizzelle, Jacob Wellington, *History*, *Rock Island.*
A.B., Northwestern University, 1895; A.M., Northwestern University; B.D., Drew Seminary.
Potter, James, *Philosophy*, *Walnut.*
A.B., Northwesten University, 1895.
Sharp, Frances, *History*, *Warsaw, Ind.*
Ph.B., Northwestern University, 1902.
Wright, Cyrus Ames, *History*, *Bardolph.*
A.B., Northwestern University, 1899; A.M., Northwestern University, 1901; B.D., Garrett Biblical Institute, 1901.

CANDIDATES FOR A BACHELOR'S DEGREE.

Abbott, Fred Edgerton,	B.S.	109	*Hastings, Neb.*
Adams, Florence Ashley,	A.B.	16	*Chicago.*
Allen, Harry Irwin,	B.S.		*Huntington, Ind.*
Anderson, Albin Garfield,	Ph.B.	69	*Chicago.*
Anderson, Earle Clyde,	Ph.B.	73	*Woodstock.*
Anderson, Lillian Antonia,	Ph.B.		*Evanston.*
Anderson, Sigurd Edward,	A.B.	51	*Manistee, Mich.*
Angier, Dana Foss,	B.S.	98	*Beardstown.*
Armstrong, Christopher Lawrence,	B.S.	16	*Milan.*
Armstrong, Lucile May,	A.B.	29	*Ottawa.*
Arnold, Florence Winifred,	Ph.B.	46	*Wilmette.*
Arnold, Gladys,	Ph.B.	46	*Wilmette.*
Asthalter, Edward Jacob,	B.S.	13	*Muscatine. Ia.*
Atchison, Robert Hall,	A.B.	66	*Elgin.*
Auten, Mildred Garvin,	Ph.B.		*Evanston.*
Ayer, Wentworth Prescott,	B.S.		*Kewanee.*
Babcock, Fred Enfield,	B.S.		*Clinton, Wis.*
Bacmeister, Laura Pauline.	A.B.		*Toulon.*
Bacmeister, Louisa,	A.B.		*Toulon.*
Baird, John William,	B.S.		*Omaha, Neb.*
Baird, Robert Wilson,	A.B.	46	*Evanston.*
Baker, Edna Dean,	A.B.		*Evanston.*
Baker, Elsie Margaret,	Ph.B.	23	*Evanston.*
Baldwin, Florence Gertrude,	B.L.	74	*Chicago.*
Baldwin, Jessie L.	Ph.B.	10	*Evanston.*
Baldwin, Miriam J.	Ph.B.	10	*Evanston.*
Balmer, Julius Pratt,	A.B.	35	*Edgewater.*
Banschbach, Litta,	Ph.B.		*Princeton.*
Barnes, John,	A.B.	84	*Paisley, Ontario.*
Barnes, Mira Maybelle,	B.S.		*Cropsey.*
Barns, Elizabeth,	Ph.B.		*Joliet.*
Barrows, Ellen Percy,	Ph.B.	77	*Lorain, O.*
Beadles, Lucius Albon,	B.S.	11	*Quincy.*
Beal, Blanche,	Ph.B.		*Clarinda, Ia.*
Beaver, Mabel Adeline,	Ph.B.	22	*Shermerville.*
Becknell, Guy Gaillard,	B.S.	84	*Goshen, Ind.*
Beecher, Carl Milton,	B.S.	5	*La Fayette.*
Beggs, George Erle,	A.B.	25	*Ashland.*
Bell, Eugene Whiteman,	B.S.	104	*St. Joseph.*
Bell, George Irving,	B.S.	79	*Channahon.*
Bell, Herbert Yoemans,	Ph.B.	15	*Harvey.*

Benedict, Aura McEwen,	B.S.	120	*Shelby, Ia.*
Beveridge, Margaret,	B.S.		*Sandwich.*
Biddle, Elvertus Franklin,	B.S.	8	*Middleton, Mich.*
Biddle, Jacob Adney,	B.S.	79	*Middleton, Mich.*
Bindhammer, Frederic Leighton,	B.S.	8	*Chicago.*
Blair, Arthur John,	B.S.	15	*Mazon.*
Blair, Charles Scofield,	Ph.B.	49	*Monica.*
Blair, Herbert Francis,	B.S.		*Oak Park*
Blair, Marguerite Marie,	B.S.		*Kenilworth.*
Blake, Wallace Hurbert,	B.L.	70	*Evanston.*
Blu, Elmer Francis,	B.S.	38	*Milford.*
Bonar, Elizabeth,	B.S.	148	*El Paso.*
Booth, Reuben Fletcher,	Ph.B.	105	*Evanston.*
Booth, William Claude,	A.B.	103	*Coal City.*
Boring, Ruth Mary,	Ph.B.	21	*Chicago.*
Bowerman, Grace L.,	B.S.		*Victor, N. Y.*
Bozarth, Mary Amantha Ann,	A.B.	49	*Okmulgee, Ind. T.*
Bragdon, Charles Ridgaway,	A.B.	52	*Evanston.*
Bragg, Everett Eugene,	B.S.		*Evanston.*
Brandt, Eddy Sanford,	B.S.		*Chicago.*
Brawthen, Clara Marie,	A.B.	20	*Chicago.*
Briggs, Charles Alfred,	Ph.B.		*Plato Center.*
Broaddus, Charles Alexander,	B.S.		*Salt Lake City, Utah.*
Brockway, Hermon L.,	A.B.		*Rawson, N. Y.*
Bronson, Elizabeth Gertrude,	B.S.	75	*Evanston.*
Bronson, Ruth,	Ph.B.		*Luverne, Minn.*
Brower, Viva May,	B.S.	53	*Rogers Park.*
Brown, Arlo Ayres,	A.B.	110	*Kewanee.*
Brown, Gale Bain,	B.S.		*Maple Park.*
Brown, Gus Scott,	B.S.		*Clearfield, Ia.*
Brown, Harry Hamilton,	B.S.	113	*Evanston.*
Brown, John L.,			*Elgin.*
Brown, Parke Warren,	B.L.	65	*Evanston.*
Brown, Sarah Juliet,	B.S.		*Elgin.*
Browning, Wayne Ferris,	B.S.		*Mt. Carroll.*
Bucknam, Mary Lizzie,	Ph.B.	104	*Warren.*
Buehler Lucie,	B.S.	23	*Chicago.*
Burnett, Rebecca Grace,	Ph.B.		*Knoxville, Ia.*
Burns, Juniata Grace,	Ph.B.		*Bureau.*
Burr, Sarah Elizabeth,	Ph.B.	108	*Grand Forks, N. D.*
Burrell, Edith Marian,	Ph.B.		*Freeport.*
Buswell, Ina Lilian,	B.S.		*Polo.*
Butz, Florence Julia,	B.S.		*Wilmette.*

Cady, Ella Leone,	A.B.	17	*Geneseo.*
Campbell, Alice,	B.S.	109	*Chicago.*
Campbell, Fannie,	Ph.B.	41	*Coal City.*
Campbell, William Thomas Benton,	B.S.	97	*Durand.*
Cannon, Lucile Follett,	A.B.	17	*Chicago.*
Capron, Mary Louise,	B.S.		*Freeport.*
Carman, Gertrude Marie,	Ph.B.	107	*Waukegan.*
Carnes, Hope,	Ph.B.		*Sycamore.*
Case, Charlotte Eunice,	B.S.		*Cherry Valley.*
Cater, Hannah Louise,	Ph.B.	61	*Libertyville.*
Cawood, Fred Thayer,	A.B.		*Sullivan.*
Chamberlin, Charlotte Roberta,	Ph.B.		*Rock Island.*
Chandler, Henry A. Ernest,	B.S.		*Evanston.*
Chapman, Jessie Rebecca,	Ph.B.		*Carlock.*
Chappell, Stella Aletta,	A.B.	71	*Sioux Falls, S. D.*
Chappell, Winnifred Leola,	Ph.B.	113	*Sioux Falls, S. D.*
Churchill, Frank Herbert,	B.S.		*Chenoa.*
Clemens, Ellen Fatima,	B.S.	104	*West McHenry.*
Cleveland, Perry Harrison,	B.S.	35	*Payson.*
Cocayne, Alonzo Vincent,	B.S.	16	*Mediapolis, Ia.*
Cocayne, Jesse Peryle,	B.S.	13	*Mediapolis, Ia.*
Cockeram, Alfred Normal,	A.B.		*Menomonie, Wis.*
Coddington, Adah,	B.S.		*Evanston.*
Coddington, William,	B.S.		*Princeton.*
Coffman, Ansel Victor,	Ph.B.	66	*Elkhart, Ind.*
Cole, Fay Cooper,	B.S.	95	*Los Angeles, Cal.*
Collins, Indee Koupal,	B.S.		*Chicago.*
Colthurst, Claire,	Ph.B.	15	*Morris.*
Comings, Mary Huntington,	B.S.	93	*Eau Claire, Wis.*
Cook, Isabel,	B.S.	46	*Chicago.*
Cook, Mabel Elizabeth,	A.B.	100	*Plano.*
Cox, Guy Henry,	B.S.		*Evanston.*
Cox, Jessie Uretta,	A.B.	51	*Evanston.*
Craig, Blanche Rollins,	B.S.		*Omaha, Neb.*
Craig, Gem,	A.B.		*North Judson, Ind.*
Craven, Edward Stanley,	Ph.B.	31	*Dixon.*
Crosby, Mrs. A. E.,	B.S.	50	*Evanston.*
Crumpacker, Harriet Mae,	Ph.B.		*Hammond, Ind.*
Cumnock, Claude,	B.S.	7	*Evanston.*
Curme, Herta,	B.S.	27	*Evanston.*
Currey, Rachel,	A.B.	49	*Evanston.*
Curtis, Smith Reede,	B.S.	3	*Waverly, Ia.*
Dale, Ruth Geraldine,	Ph.B.	15	*Winnetka.*

Dapper, Emma Elizabeth,	Ph.B.	119	*Quincy.*
Davenport, Kenneth Howard,	A.B.	64	*Creston, Ia.*
Davenport, Ora Belle,	Ph.B.	31	*Creston, Ia.*
Davis, Percy Roland,	B.S.	105	*Chicago.*
Decker, Mabel Adams,	Ph.B.	80	*Chicago.*
Decker, Martin Cornelius,	A.B.		*Gray's Lake.*
Delay, Edith Idetta,	B.S.	96	*Chebanse.*
Dennett, Edith,	Ph.B.	92	*Evanston.*
Dennis, Roger Leigh,	B.S.	107	*Traer, Ia.*
Derby, Eva Jane,	A.B.	49	*Murdock.*
Derby, Horace Mann,	A.B.	40	*Murdock.*
Derickson, Lucy Adele,	B.S.	76	*Kenilworth.*
Dickey, Charles James,	A.B.	91	*Evanston.*
Dickinson, Rogerta,	B.L.		*Eureka.*
Dildine, Harry Glenn,	A.B.	112	*Dildine, Mich.*
Dines, Lloyd Lyne,	A.B.	25	*Quincy.*
Doland, Emma Amphlett,	Ph.B.		*Rogers Park.*
Dolbeer, Loverne Ann,	Ph.B.		*Chicago.*
Dolby, Elizabeth Sarah,	Ph.B.	5	*South Chicago.*
Doney, Harriet Mae,	Ph.B.		*Canton.*
Doty, Eleanor Stranahan,	A.B.	111	*Warren, Pa.*
Douglass, Elizabeth Stowe,	Ph.B.		*Evanston.*
Drew, Ruth Elizabeth,	Ph.B.	11	*Chicago.*
Dudley, Harlan Eddy,	B.S.		*Nevada. Ia.*
Durham, Harriet Babcock,	B.L.	103	*Onarga.*
Eldred, Alice Stanley,	B.S.	12	*Joliet.*
Eldred, Bertha Marguerite,	Ph.B.	15	*Joliet.*
Ellis, Cora Belle,	Ph.B.	78	*Lexington.*
Ellis, Edwin Erastus,	Ph.B.	93	*Evanston.*
Ellis, Mabel Florence,	Ph.B.		*Chicago.*
Elmquist, Axel Louis,	A.B.	68	*Ravenswood.*
English, Arthur Floyd,	Ph.B.		*Robinson.*
English, Oliver Atwood,	B.S.	39	*Robinson.*
Ensor, Guy,	Ph.B.	22	*Savannah, Mo.*
Falley, Eleanor Worthington,	B.S.	48	*Evanston.*
Fansler, Dean Spruill,	A.B.	29	*Evanston.*
Faulkner, John Porcius,	B.S.		*Glencoe.*
Fehrman, Manie,	A.B.	11	*Evanston.*
Fidler, George Elmer,	A.B.	7	*Martinton.*
Fisher, Lavinia Augusta,	B.S.	18	*Springfield.*
Fisher, Sallie Martha,	B.S.		*Bucyrus, O.*
Flack, Lottie,	Ph.B.		*Joliet.*
Fleager, Harry Anderson,	B.S.	88	*Sheldon.*
Fletcher, Charles Edwin,	B.S.	39	*Lisbon.*

Foster, Amelia Jeannette,	B.S.	109	*Chicago.*
Foudray, Elbertie,	B.S.	117	*Evanston.*
Fowler, James Herbert,	A.B.	85	*Lincoln, Neb.*
Frank, Jessie,	B.S.		*Spring Valley.*
Friend, Lillian Samuel,	B.S.		*Ashland, Wis.*
Frye, Milton,	A.B.	111	*Shannon.*
Fulcher, Gordon Scott,	B.S.	49	*Evanston.*
Fuller, Darlene,	Ph.B.		*Princeton.*
Gallup, Henry Victor,	A.B	68	*Chicago.*
Ganster, Howard Elwood,	A.B.		*Dayton, O.*
Gates, Arthur Lorenzo,	A.B.	114	*Lena.*
Gates, Jessie Maude,	Ph.B.	92	*Winona, Minn.*
Gates, Lloyd Franklin,	A.B.		*Garrett City, Ind.*
Gazlay, William Soaper,	A.B.	81	*Chicago.*
George, James William,	A.B	46	*Fulton.*
Gilchriese, Louise Mary,	B.S.	19	*Negaunee, Mich.*
Gilruth, Genevieve,	B.S.	46	*West Plains, Mo.*
Girton, Daisy Myrtle,	B.S.	30	*Madison, S. D.*
Gold, Florence Louise,	Ph.B		*Big Stone City, S. D.*
Graeser, Charles Frederic,	B.S.		*Evanston.*
Graves, Frances Jeanne,	Ph.B.		*Hinckley.*
Green, Ida Grace,	Ph.B.		*Evanston.*
Greenman, Almon Ansel,	B.S.	63	*Buenos Ayres, S. A.*
Greenman, Emily Henrietta,	A.B.	89	*Buenos Ayres, S. A.*
Griffith, Grace Luzella,	A.B.		*Council Bluffs, Ia.*
Grigson, Blanche Lenora,	A.B.	12	*Augusta.*
Gsell, Earl Wilson,	B.S.	40	*Evanston.*
Haff, Josephine Emma,	Ph.B.	49	*Ludington, Mich.*
Haines, Mary,	Ph.B.		*Evanston.*
Haines, Minnie I.,	Ph.B.	78	*Evanston.*
Hall, Margaret Sidney,	Ph.B.	48	*McGregor, Ia.*
Hall, Victor Curtis,	Ph.B.	16	*Tuscola.*
Hallam, Joseph,	B.S.	79	*Albion.*
Hamilton, Robert John,	B.S.	77	*Gardner.*
Hammond, Margaret,	Ph.B.	25	*Evanston.*
Hammond Marie,	Ph.B.	15	*Evanston.*
Hanns, William Harrison,	B.S.	12	*Palatine.*
Hanson, Jennie,	A.B.	18	*Chicago.*
Harker, Herbert Leonard,	B.S.		*Shullsburg, Wis.*
Harnden, Floid Leland,	B.S.	64	*Barrington.*
Harris, Alfred Ernest,	B.S.		*Kentisbury Ford, Eng.*
Harris, Emily,	B.S.		*East Machias, Me.*
Harrison, Shelby Millard,	B.S.		*Leaf River.*
Harroun, George Levant,	B.S.	99	*Crescent City.*

Harter, Minnie Louise,	A.B.	49	*Chicago.*
Hartman, Emery Abram,	A.B.		*Ashley, Ind.*
Harwood, Leila Woodbury,	Ph.B.	32	*Chicago.*
Hastings, Oris,	B.S.		*Cairo.*
Hatfield, Florence Helen,	Ph.B.	112	*Indianola, Ia.*
Hauser, Cornelia Louise,	A.B		*Aberdeen, S. D.*
Heaps, Allison Ray,	B.S.	74	*Kewanee.*
Heflin, Charlotte,	Ph.B.		*Wenona.*
Heilman, William,	B.S.		*Evansville, Ind.*
Heren, Mabel Mae,	B.S.	75	*Evanston.*
Hess, Herbert William,	Ph.B.	63	*St. Louis, Mo.*
Higgins, Alice Aileen,	B.L.		*Kansas City, Mo.*
Hill, Mary Elizabeth,	B.S.		*Fargo, N. D.*
Hillman, Elizabeth Gaylord,	B.S.		*Evanston.*
Hobbs, Enid Marian,	A.B.		*Canton.*
Hobbs, Ernest Samuel,	A.B.	99	*Canton.*
Hochbaum, Hedwig Hermine,	B.S.	87	*Chicago.*
Hogge, Alice M.	A.B.	22	*Glencoe.*
Holderness, Edna Louise,	B.S.	41	*Kenosha, Wis.*
Hollister, Francis Hiel,	B.S.	61	*Cambridge, N. Y.*
Horn, Elbert Vernon,	Ph.B.	12	*DeKalb.*
Horton, Lewis Ray,	B.S.		*Littleton.*
Hubbart, Dwight Conklin,	B.S.		*Monticello.*
Hubbart, Oliver Sherman,	B.S.		*Monticello.*
Hulbert, Frances Diantha,	A.B.	46	*Chicago.*
Hurn, Rebecca Jane,	Ph.B.	47	*Clear Lake, Ia.*
Hurst, Ava Elizabeth,	Ph.B.	18	*Galena.*
Imus, Mabel Lola,	B.S.		*Mendota.*
Int Hout, Corniel,	Ph.B.	77	*Oak Glen.*
Jackson, Charles Clinton,	Ph.B.		*Des Moines, Ia.*
Jackson, Edgar Starkey,	B.S.	99	*Blanchester, O.*
Jenkins, Florence,	B.S.	12	*Chicago.*
Jensen, Marie,	B.S.	40	*Chicago.*
Johns, Nelle Swannell,	Ph.B.	83	*Danville.*
Johnson, Charles John,	Ph.B.		*Evanston.*
J hnson, Francis James,	B.S.		*Box Grove, Ont.*
Johnson, Paul Clarence,	B.S.	19	*Evanston.*
Johnson, William Richard,	B.S.		*Cornell.*
Johnston, Earnest Sevelon,	A.B.	12	*Wilmington.*
Johnston, Myrtle L.,	Ph.B.	79	*Joliet.*
Jones, Dora E.,	A.B.	23	*Frankfort, Ind.*
Jones, Lester Seamen,	B.S.		*Ashland, Neb.*
Jones, William Howell,	B.S.		*Joliet.*
Jordan, Carl Francis,	B.S.		*Burlington, Ia.*

Jordan, Oscar Joseph,	Ph.B.	46	*Pullman.*
Joslyn, Arthur Everett,	B.S.	120	*Marengo.*
Justice, James Caleb,	A.B.	42	*Evanston.*
Kanagy, Simon Menno,	B.S.		*Milroy, Pa.*
Kanavel, Thomas Marshall,	B.S.		*Witchita, Kan.*
Kappelman, John Adam,	B.S.		*Evanston.*
Karn, Mary Edith,	A.B.	106	*Ortonville, Minn.*
Kaufman, Gustav Leonard,	B.S.	49	*Chicago.*
Kays, Lucretia Garfield,	B.S.	106	*Evanston.*
Kelley, Walter Denman,	A.B.		*Cheyenne, Wyo.*
Keltner, Joseph Edward,	B.S.	71	*San Jose, Cal.*
Kerr, William Dunton,	A.B.	87	*Oak Park.*
Kettlebar, Ballington Charles,	Ph.B.		*Topeka, Ind.*
Kimball, Dorr Edwin,	B.S.	51	*Evanston.*
Kimber, Mabel A.,	A.B.	49	*Springfield.*
King, Ida Harriet,	A.B.		*Evanston.*
Kinnison, Effie,	Ph.B.	97	*Ligonier, Ind.*
Kleihauer, Christian Frederick,	Ph.B.	68	*Evanston.*
Kletzing, Amy Florence,	Ph.B.	15	*Chicago.*
Klima, Josephine,	A.B.		*Onslow, Ia.*
Klove, Noah Grover,	B.S.	15	*Leland.*
Kotz, Raymond,	B.S.		*Chicago.*
Ladd, Edward Rixon,	A.B.	52	*Elgin.*
Ladd, Nellie,	Ph.B.		*Chicago.*
La Dow, Maude Fairbanks,	B.S.	61	*Orleans, Mich.*
Laird, Allie Luella,	A.B.	8	*Evanston.*
Lane, Ernest Allen,	A.B.		*Evanston.*
Lane, James Lewis,	B.S.	102	*Warrensburg, Mo.*
Lane, Ruth Lillian,	Ph.B.	107	*Winona, Minn.*
Langdoc, Simon Saul,	B.S.	12	*St. Anne.*
Larsen, Edith Celia,	Ph.B.		*Green Bay, Wis.*
Lasher, Grace Estelle,	Ph.B.	30	*Evanston.*
Lawrence, Edith Elizabeth,	A.B.	103	*Seattle, Wash.*
Lawrence, Ethel Anna,	B.S.	13	*Seattle, Wash.*
Leach, Imagarde B.,	Ph.B.	15	*Rogers Park.*
Leburg, Helga Marie,	A.B.	108	*Chicago.*
Lee, Frank,	A.B.		*Maryville, Mo.*
Lee, Ray Elmer,	Ph.B.	100	*Maryville, Mo.*
Leonard, Cora,	Ph.B.	9	*Valparaiso, Ind.*
Lewis, Eleanor Frances,	A.B.	73	*Chicago.*
Lewis, Thomas Leach,	B.S.	12	*Fairbury.*
Lindholm, Florence,	A.B.		*Chicago.*
Lindquist, Cyrus Elroy,	A.B.		*Galesburg.*
Little, Mollie B.,	B.S.	35	*Kankakee.*

Livermore, Margaret,	Ph.B.	75	*Evanston.*
Loew, Mina,	Ph.B	108	*Le Mars, Ia.*
Long, Edith Louise,	A.B.		*Marengo, Ia.*
Long, Eva Mary,	A.B.		*Pontiac.*
Long, Will Henry,	B.S.	15	*Marshalltown, Ia.*
Lord, Robert Howard,	Ph.B.	38	*Plano.*
Luther, Clarence Job,	B.S.	75	*Evanston.*
Lyon, Mary Mansfield,	Ph.B.	63	*Joliet.*
Lyons, Alice Bell,	Ph.B.		*Ludington, Mich.*
McClinton, John Wesley,	A.B.	110	*Port Elgin, Ont.*
McConnell, Charles Percy,	B.S.	110	*Evanston.*
McDougal, Herbert,	Ph.B.	64	*Princeton, Wis.*
McGrew, David Randolph,	A.B.		*Williamsville.*
McIntosh, Walter G.,	B.S.		*Clear Lake, Ia.*
McKee, Beulah Clare,	Ph.B.		*Evanston.*
McLean, Nell Elizabeth,	Ph.B.	39	*Princeton.*
McMichael, George Alexander,	Ph.B.	97	*N. Platte, Neb.*
McPherrin, Howard Chester,	A.B.		*Kansas City, Mo.*
McPherrin, Hugh Webster,	Ph.B.		*Kansas City, Mo.*
Macgaffey, Christine,	B.S.		*Chicago.*
Mann, John,	B.S.		*Rossville.*
Manson, Egbert Frank,	B.S.		*Evanston.*
March, Ralph Cartwright,	B.S.	77	*Oregon.*
Mark, Clarence Herbert,	Ph.B.		*Muscatine, Ia.*
Marshall, Carrie McKnight,	B. S.		*Chicago.*
Martin, Maude Marguerite,	Ph.B.	70	*Newton.*
Martin, May,	A.B.	15	*Chicago.*
Mason, Carrie Edith,	A.B.	82	*Evanston.*
Mathis, Daisy May,	B.S.	39	*Prophetstown.*
Mattison, Robert Spencer,	Ph.B.		*Evanston.*
Maxwell, John William,	B.S.		*Evanston.*
Mayne, Charles,	A.B.	14	*Evanston.*
Mayr, Marguerite Johanna,	B.S.	116	*Chicago.*
Meents, Walter Howard,	B.S.		*Ashkum.*
Melzer, Josephine,	A.B.	15	*Glenview.*
Merrell, Morton William,	A.B.	73	*Monmouth.*
Merrill, Ethel Louise,	A.B.	108	*Evanston.*
Merrill, Harvey Robert,	Ph.B.	113	*Evanston.*
Merubia, Moises,	B.S.	24	*Iquique, Chili, S. A.*
Meyer, Anjuline Orillia,	Ph.B.	90	*Evanston.*
Miehle, Mabel Kathryne,	A.B.	39	*Chicago.*
Mies, Frank Peter,	B.S.	104	*Saunemin.*
Miles, Lois,			*Corydon, Ia.*
Miller, Robert E.,	A.B.		*Greeley, Col.*

Miller, Virginia Elizabeth,	A.B.	108	*La Crosse, Wis.*
Millizen, Ralph Waldo Emerson,	A.B.	76	*Sullivan.*
Milnes, Frank Joy,	B.S.	88	*Evanston.*
Moll, Benjamin Andrew,	B.S.		*Charles City, Ia.*
Monier, Roy Hughes,	Ph.B.		*Hopkins, Mo.*
Montgomery, Alice Maud,	A.B.	57	*Ireton, Ia.*
Moon, Faye Arnold,	Ph.B.		*Evanston.*
Moore, Kathleen Mary,	Ph.B.	43	*Winnetka.*
Morford, Raymond Sparks,	A.B.	16	*Evanston.*
Morris, Frank Ellis,	B.S.	59	*Evanston.*
Morris, Margaret,	Ph.B.	7	*Evanston.*
Moss, Joseph Lincoln,	B.S.		*Chicago.*
Moyer, Edmund Warren,	B.S.		*Evanston.*
Mueller, Hedwig Henrietta,	B.L.	105	*Chicago.*
Murray, Florence Melissa,	Ph.B.		*Evanston.*
Myers, Walter Raleigh,	Ph.B.	111	*Harvey.*
Nash, Albert Henry,	A.B.	31	*Elizabeth.*
Negus, Lenore Latham,	Ph.B.	107	*Wilmette.*
Nehls, Arthur Louis,	B.S.		*Chicago.*
Nesbitt, Orpha E.	B.S.		*Paunee City, Neb.*
Newman, Frank Rogers,	A.B.	45	*Chicago.*
North, Lyman Hull,	Ph.B.	40	*Evanston.*
Northey, Vinnie Marion,	B.L.		*Waterloo, Ia.*
Northrup, Edith Agnes,	A.B.	67	*Graceville.*
Norton, Harriet Gertrude,	Ph.B.	130	*Evanston.*
Norton, Louise Werneburg,	A.B.	16	*Chicago,*
Nortrup, Scott Stickle,	Ph.B.	45	*Havana.*
Nugent, Thomas Edward,	A.B	108	*Marquette, Neb.*
Nusbaum, Payson L.,	B.S.		*Middlebury, Ind.*
Nuttall, John Tilden,	B.S.		*Flat Rock.*
Olgen, Amy Hedwig,	A.B.	76	*Rogers Park.*
Oliver, Maude Louise,	Ph.B.	106	*Evanston.*
Ordway, Kelsey Sanborn,	A.B.	52	*Readfield, Me.*
Orem, Leonora Mary,	Ph.B.	18	*Chicago.*
Palmer, George Thomas,	B.S.		*Evanston.*
Palmer, Margaret Ellen,	Ph.B.	20	*Princeton.*
Parker, Jessie Eugenia,	A.B.		*Trinidad, Col.*
Partridge, Ethlyn Amelia,	A.B.	49	*Wolcott, N. Y.*
Patten, Emma Theodora,	Ph.B.	11	*Evanston.*
Paupa, Anna Katherine,	A.B.	42	*Chicago.*
Pearce, Bessie Gertrude,	B.S.		*Oswego.*
Pearce, Daisy Irene,	B.S.	49	*Oswego.*
Peck, David Billings,	B.S.	101	*Chicago.*

Peckumn, Eli Franklin,	B.S.	65	*Stuart, Ia.*
Penfield, Ruth Sherman,	Ph.B.		*Rogers Park.*
Perdue, Mentor Josias,	B.S.	90	*Opolis, Kan.*
Peters, Jessie Irene,	B.S.	105	*Chicago.*
Peterson, Hildur Eveline,	Ph.B.	17	*Chicago.*
Peterson, Louis Christiern,	B.S.	107	*Worcester, Mass.*
Plagge, Herbert John,	B.S.	17	*Evanston.*
Pollard, Naoma Willie,	A.B.	42	*Chicago.*
Pope, Merritt Nichol,	B.S.		*Minneapolis, Minn.*
Porter, Francis Gates,	B.S.	109	*Chicago.*
Powers, Myra,	Ph.B.	15	*Chicago.*
Price, Florence,	A.B.	15	*Chenoa.*
Prindle, Catherine Sarah,	Ph.B.	12	*Manchester, Va.*
Raeder, Luise Wilhelmine,	B.S.	66	*Evanston.*
Rape, Bertram,	A.B.		*Taylorville.*
Rarig, Arthur,	Ph.B.	73	*Minneapolis, Kan.*
Rarig, Frank Miller,	A.B.		*Minneapolis, Kan.*
Rattray, Edna,	Ph.B.		*Chicago.*
Ray, Bessie,	Ph.B.	87	*Chicago.*
Raymond, Mary,	Ph.B.	76	*Evanston.*
Ream, Albert Lewis,	B.S.	59	*Hampshire.*
Rech, Gilbert Henry Andrew,	A.B.	18	*Chicago.*
Redeker, Walter Christopher,	B.S.		*Elgin.*
Reed, Frank Nelson,	B.S.	49	*Reed.*
Reed, Luella,	B.L.		*Decatur.*
Reed, Walter Wilson,	Ph.B.		*Derby, Kan.*
Reed, William John,	B.S.	42	*Glenview.*
Reisner, Lewis Alpheus,	B.S.	21	*Sterling.*
Reithard, Abbie Grace,	Ph.B.	39	*Evanston.*
Richards, Estelle Watson,	B.S.		*Milwaukee, Wis.*
Richards, Florence Louise,	Ph.B.	108	*Evanston.*
Richards, Gilbert Haven,	B.S.		*Berwyn.*
Riley, Garfield William,	A.B.		*Dayton, O.*
Ristine, Mary DeFrees,	Ph.B.		*Crawfordsville, Ind.*
Robinson, John Wendell,	B.S.	80	*Evanston.*
Rocheleau, George Alexander,	B.S.		*Chicago.*
Rodgers, Adelina Patti,	Ph.B.		*Charleroi, Pa.*
Roessler, Elsa Augusta,	Ph.B.	19	*Chicago.*
Rogers, Oliver Morton,	B.S.		*Dixon.*
Roloff, Walter Edward,	Ph.B.	63	*Barrington.*
Romans, John Brown,	Ph.B.	66	*Denison, Ia.*
Romel, Harriet Booth,	Ph.B.		*Michigan City, Ind.*
Rompel, Thelka,	Ph.B.	28	*Chicago.*
Root, Huber Hall,	B.S.		*Medina, O.*

Rosenberry, Edgar Harrison,	A.B.		*Atkinsons Mills, Pa.*
Rosine, Howard Myron,	B.S.		*Lakeside.*
Royal Clifton DeBeVoise,	A.B.	25	*Mt. Pleasant, Mich.*
Ruhstadt, Fannie,	B.S.		*Hammond, Ind.*
Ruick, Gertrude Lucile,	A.B.	15	*LaGrange, Ind.*
Ryden, Otto Gustaf,	Ph.B.	114	*Evanston.*
Sabin, Charles Gilbert,	B.S.	75	*Evanston.*
Sampson, Laura Belle,	Ph.B.		*Chicago.*
Sanford, Arthur Hawley,	A.B.	81	*Milwaukee, Wis.*
Sargisson, Zaccheus Eugene,	B.S.		*Berwyn.*
Scheftel, Yetta Molly,	B.S.	21	*Chicago.*
Schendel, Chrissie Mabel,	Ph.B.		*Princeton.*
Schmidt, Arthur Albert,	B.S.		*Chicago.*
Schnäbele, Hazel Marie,	Ph.B.	25	*Geneseo.*
Schreiber, Charles Henry,	B.S.	99	*Potter, S. D.*
Schwingel, Theresa,	B.S.	104	*Chicago.*
Scott, Thomas,	B.S.		*Onarga.*
Seager, Margaret Loretta,	B.S.	87	*St. James, Minn.*
Seaman, Anna Lucinda,	A.B.	79	*Momence.*
Seaman, Maud Tesmer,	A.B.	111	*Momence.*
Searight, Estella,	Ph.B.		*Montezuma, Ia.*
Segar, Charles Nelson,	B.S.		*Rockford.*
Seed, Emily Rhoda,	Ph.B.		*Sumner.*
Sexton, Leola Logan,	A.B.	17	*Chicago.*
Shannon, Ethel Estelle,	Ph.B.		*Minneapolis, Minn.*
Shepard, William Odell,	A.B.	11	*Chicago.*
Shibley, Albert Erle,	B.S.		*St. Charles.*
Shull, Lulu Margaret,	Ph.B.		*Montpelier, Ind.*
Shurtleff, Alice Ethloine,	Ph.B.	49	*Wilmette.*
Siberts, Olive Ruth,	B.S.	49	*Mercedes, S. A.*
Sierts, Nicholas,	Ph.B.	43	*Chicago.*
Silliman, Alice,	B.S.		*Nevada, Ia.*
Sipek, Walter Frank,	A.B.	103	*Kosteletz, Bohemia.*
Slade, John J.	B.S.		*Palatine.*
Slocum, Helen Gowdy,	Ph.B.	61	*Edgewater.*
Slocum, John Ainslie,	A.B.	11	*Edgewater.*
Smart, Gertrude Mills,	Ph.B.	60	*Payson.*
Smith, Adeline Naomi,	B.S.	34	*Onarga.*
Smith, Elberta Thalia,	Ph.B.	104	*Springfield.*
Smith, Frank Eugene,	A.B.	66	*Maryville, Mo.*
Smith, Frank Oscar,	B.S.	53	*Ransom.*
Smith, Harriet Evalyn,	A.B.	43	*Quincy.*
Smith, Helen,	B.S.	73	*Wooster, O.*
Smith, Mildred Alola,	B.S.	63	*Westville, Ind.*

Smith, Orpha,	Ph.B.	74	*Harlan, Ia.*
Smoot, Harry Edward,	A.B.		*Petersburg.*
Smoot, Marshall Anderson,	B.S.		*Petersburg.*
Smothers, Arthur Elton,	A.B.	15	*Rossville.*
Snell, Lila Henrietta,	B.S.	11	*Chicago.*
Snell, Roy Waldo,	B.S.		*Ida Grove, Ia.*
Sohrbeck, Henrietta,	Ph.B.	23	*Moline.*
Sommer, Minnie,	Ph.B.	33	*Chicago.*
Sparling, Sylvester,	B.S.		*Henry.*
Spence, Bartholomew John,	B.S.	44	*Chicago.*
Spencer, Frank Edwin,	A.B.	35	*Centralia.*
Spencer, Hazel Harriet,	A.B.		*Chicago.*
Springer, Isaac Elihu,	Ph.B.		*Hazel, S. D.*
Sproul, Hester May,	B.S.	63	*Elgin.*
St. Clair, Paul Sumner,	B.S.		*Des Moines, Ia.*
Staatz, William C.,	Ph.B.		*Woodbine, Kan.*
Stahl, Charles Edward,	A.B.	120	*Chicago.*
Sterrett, Marion,	Ph.B.	80	*Washington, Pa.*
Stevens, Douglas Franklin,	B.S.	13	*Evanston.*
Stevens, George Marsden,	Ph.B.	59	*Chicago.*
Stevens, William Blue,	Ph.B.	55	*Chicago.*
Stewart, Edith Ogden,	B.S.		*Creston, Ia.*
Stewart, Eva May,	Ph.B.	112	*Evanston.*
Stickle, Charles Edward,	A.B.		*Chicago.*
Stotler, Edwin John,	B.S.	68	*Evanston.*
Stout, Winnifred Luella,	Ph.B.		*Hurley, S. D.*
Stoutemyer, Margaret Lee,	A.B.	17	*Onarga.*
Stowe, Ancel Roy,	Ph.B.	99	*Chicago.*
Stowe, Herman Wilmer,	B.S.	92	*Ft. Dodge, Ia.*
Strong, Harriet Salome,	B.S.		*Downer's Grove.*
Strothers, Theodore Lucius,	B.S.		*Beloit, Wis.*
Stults, Walter Allen,	B.S.	42	*Evanston.*
Summerville, Ralph Waldo Emerson,	B.S.	111	*Evanston.*
Sunderland, Emily Kingman,	Ph.B.		*Delevan.*
Sutherland, Martha Emma,	A.B.		*Pierre, S. D.*
Sweeney, Susan Sanders,	Ph.B.	39	*Rushville.*
Sykes, Annie Ethel,	Ph.B.	57	*Beverly.*
Taylor, Lawyer,	B.S.	101	*Austin, Texas.*
Taylor, Myron Eugene,	Ph.B.	11	*Barrow, Wis.*
Tedrick, Edna Muriel,	A.B.	62	*Morris.*
Thayer, Lola Stephanie,	B.S.	81	*Evanston.*
Thistlewood, Leila,			*Cairo.*
Thomas, Emma Jane,	B.S.	40	*Chicago.*

Thomas, Lillian Daisy,	B.L.	90	*Denver, Col.*
Thompson, Charlotte,	Ph.B.	68	*Leland.*
Thompson, Effie,	Ph.B.		*Evanston.*
Thompson, Mabel Warner,	B.L.	12	*Ottawa.*
Thursby, Claire,	Ph.B.		*Antigo, Wis.*
Tilroe, George Staley,	A.B.	103	*Robinson.*
Traxler, Bina Mae,	Ph.B.		*Evanston.*
Trelease, Ella,	A.B.	8	*Lowell, Ind.*
Truby, Estella May,	B.S.		*Maple Park.*
Tullis, Leila Dell,	Ph.B.		*Milford.*
Turner, Frances Viola,	B.S.	19	*Chicago.*
Turner, Jeremiah,	A.B.	6	*Sandwich.*
Turner, Mac,	B.S.		*Hammond, Ind.*
Twining, Granville Howard,	B.S.	44	*Des Moines, Ia.*
Tyson, Anna Mae,	A.B.	105	*Chicago.*
Ullrick, Laura Foster,	A.B.	108	*Buffalo, N. Y.*
Ulmer, Sarah Julia,	A.B.	49	*LaGrange, Ind.*
Unzicker, Hedwig,	B.S.	10	*Chicago.*
Van Deventer, James Fred,	A.B.		*Farmer City.*
Van Galder, Anna Claire,	Ph.B.	29	*Rock Island.*
VanPelt, Roscoe Samuel,	A.B	69	*Monmouth.*
Vaughan, Etta Lucy,	B.S.	66	*Odell.*
Vaughan, John George,	Ph.B.	99	*Chicago.*
Voight, Mary,	Ph.B.	12	*Kankakee.*
Wakeman, Olin Alonzo,	B.S.	39	*Melrose Park.*
Walker, Granville Fay,	B.S.		*Charleston.*
Walker, Louis Alfred,			*Chicago.*
Walkers, Nellie C.	B.S.	2	*Atlantic, Ia.*
Wall, Edgar Tingley,	B.S.		*Evanston.*
Wallace, David Alexander,	Ph.B.		*Hanarden, Ia.*
Walters, Lillian Mae,	Ph.B.	19	*Harlan, Ia.*
Warrington, Isabel Ormiston,	Ph.B.	69	*Malden.*
Warrington, Raymond Ormiston,	B.S.		*Malden.*
Wax, Margaret Valentine,	A.B.	38	*Barclay.*
Welch, Anna,	B.S.	104	*Evanston.*
Wells, Bertha Louise,	Ph.B.	32	*Freeport.*
West, Louis Coulton,	A.B.		*Evanston.*
Whipple, Jennie Gross,	B.S.	54	*Genoa.*
Whipple, Mary Louise,	Ph.B.		*Joliet.*
White, Bertha Maud,	Ph.B.	62	*Chicago.*
White, Jennie Bethany,	A.B.	43	*Princeton.*
Whitney, Henry James,	B.S.		*Independence, Ia.*
Wilberton, Laura,	A.B.		*Winona, Minn.*

Wilcox, Edna Caroline,	B.S.		*Minonk.*
Wiley, William Robert,	A.B.		*Evanston.*
Wilkinson, James Garfield,	A.B.		*Washington.*
Williams, Eliot Churchill,	Ph.B.		*Evanston.*
Williams, Elizabeth,	B.S.	12	*Chicago.*
Williams, Everett Benson,	B.S.	79	*Chicago.*
Williams, Noah,	B.S.		*Ida Grove, Ia.*
Willmarth, Sinclair Anson,	B.S.	7	*Glencoe.*
Willson, Royal Andrew,	B.S.	49	*Tallula.*
Wilson, Catherine Viola,	Ph.B.	11	*Evanston.*
Window, Amelia Thompson,	B.S.	44	*Evanston.*
Witter, John H.	B.S.		*Greenview.*
Wood, Cassius Hiram,	B.S.		*Cass City, Mich.*
Woodley, Ruth M.	B.S.	107	*Evanston.*
Woods, George Benjamin,	A.B.	103	*South Bend, Ind.*
Woodworth, Florence Jane,	B.S.	47	*Evanston.*
Woodworth, John Melvin,	B.S.		*Ida Grove, Ia.*
Works, Bernice,	Ph.B.		*Evanston.*
Works, Florence Ethel,	Ph.B.		*Evanston.*
Wulff, John Frederick,	B.S.	59	*Evanston.*
Wulff, Virginia Jeannette,	Ph.B.		*Kenosha, Wis.*
Wynekopp, Gilbert Haven,	B.S.	102	*Chicago.*
Young, Arthur Edward,	A.B.		*Evanston.*
Young, Frank Davis,	Ph.B.	28	*Denison, Ia.*
Young, Lily Mae,	A.B.		*Belvidere.*
Zaumbrecher, Elsie,	B.S.	113	*Evanston.*

NOT CANDIDATES FOR A DEGREE.

SPECIAL STUDENTS.

Allard, Leola Imogen,	*Pueblo, Col.*
Allen, Mabe Clearfield,	*Maryville, Mo.*
Arildson, Peter Christopher,	*Rock Rapids, Ia.*
Axtell, Warren Foss,	*Freeport.*
Baker, James Edward,	*Evanston.*
Balmer, Helen Ruth,	*Edgewater.*
Becker, Vera,	*Chicago.*
Bolster, Grace Nye,	*Chicago.*
Bovard, Edna,	*Marseilles.*
Bradley, Edith Irene,	*Evanston.*
Burdick, Anna Lavinia,	*Assumption.*
Bussey, Lewis Mortimer,	*Chicago.*
Buzzard, Joseph C.,	*Goshen, Ind.*
Chidester, Eva Maud,	*Evanston.*

Collmann, Frederick,	*Madison, Wis.*
Collyer, Josephine May,	*Chicago.*
Colvin, Ernest Elmer,	*Wichita, Kan.*
Conover, J. Lansing,	*Huntley.*
Creek, Bertha,	*Olney.*
Dawson, Horace Lathrop,	*Evanston.*
Everett, Mary Isabel,	*Des Moines, Ia.*
Fabian, Francis Gordon,	*Evanston.*
Fehrman, Henry J.,	*Evanston.*
Ferry, Albert Montague,	*Evanston.*
Flanningam, Miletus Lafayette,	*Potomac.*
Gilchrist, Mabel Ethlind,	*Strawberry Point, Ia.*
Goar, Anne Loraine,	*McKenzie, Tenn.*
Goffe, Margaret Herrald,	*Evanston.*
Grant, Avis Winchell,	*Evanston.*
Gray, Webster Ebel,	*Greenville, S. C.*
Greene, Walter Chester,	*Rockford.*
Haise, Litta Mae,	*Dwight.*
Hamilton, Harry David,	*Evanston.*
Hanson, David Thomas,	*Tuscola.*
Hargrave, Margaret Douglas,	*Baraboo, Wis.*
Hart, George Botto,	*Chicago.*
Haskell, Josephine Nelson,	*Evanston.*
Haugan, Helga Caroline,	*Evanston.*
Hefin, Pearl Pauline,	*Wenona.*
Hemphill, Ethel,	*Dexter, Ia.*
Henderson, Francis Harold,	*Colfax.*
Hill, Mabelle,	*Evanston.*
Hillman, Elleanor Millward,	*Evanston.*
Hubbard, Margaret Elizabeth,	*South Chicago.*
Hubbard, Margaret Seymour,	*Chicago.*
Keeler, Crete Madeline,	*Chicago.*
Kimball, Ruth Merrill,	*Evanston.*
Klinefelter, Mary Anna,	*Belle Plaine, Ia.*
Kniseley, Mabel,	*Butler, Ind.*
Lamb, Roy Dane,	*Edgewater.*
Lange, Ottilie Meta,	*Bloomington.*
Linthicum, Eda,	*Chicago.*
Little, Edith Regina,	*Evanston.*
Logeman, Minnie Vinina,	*Chicago.*
Lord, Porter Butts,	*Chenoa.*
Lyons, Nettie,	*Evanston.*
McDermith, Pauline Augusta,	*Denver, Col.*
Massen, John,	*Avoca, Ia.*

Moore, Elizabeth Jane,	*Evanston.*
Nay, Helen Louise,	*Evanston.*
Neal, May Ethel,	*Mossville.*
Nelson, Lillian Elizabeth,	*Evanston.*
Northrop, Frances,	*Woodstock.*
Nourse, Alice Louise,	*Downer's Grove.*
O'Neill, Harry Francis,	*Pittsburg, Pa.*
Owens, Erle Blaine,	*Benton Harbor, Mich.*
Pledger, Clifton Pryor,	*Evanston.*
Robinson, Wilnina Frances,	*Lansing, Mich.*
Rogers, Nellie,	*Michigan City, Ind.*
Rowley, Fred,	*Kewanee.*
Rundel, Abraham Garfield,	*Loda.*
Ryden, Gertrude Louise,	*Evanston.*
Schmachtenberger, Mabell,	*Roodhouse.*
Sexauer, John Arthur,	*Belvidere.*
Shay, Ralph Reed,	*Streator.*
Shotwell, Mina,	*Evanston.*
Somers, Elsa Louise,	*Chicago.*
Starkweather, Julia Gertrude,	*Evanston.*
Stevenson, Alma Mandana,	*Princeton.*
Stevenson, Laura Herr,	*Ridgely, Md.*
Stillman, George Garfield,	*Osage, Ia.*
Stone, Gladys,	*Butler, Ind.*
Tidd, Katherine Matilda,	*Chicago.*
VanRyper, James,	*New Carlisle, Ind.*
Ward, Charles William,	*Onarga.*
Weese, Joseph Roscoe,	*Huntington, Ind.*
Whipple, Viva Clare,	*Joliet.*
Williams, Everett Lyle.	*Sparta, Wis.*

ACADEMY STUDENTS WITH SOME COLLEGE WORK.

Anderson, Ernest Emil,	*Evanston.*
Coffey, Roy Calhoun,	*Newman.*
Ellingwood, Elliot Lee,	*Evanston.*
Fehrman, Ira B.,	*Evanston.*
Flannery, Florence,	*Wheaton.*
Forney, Samuel W.,	*Minonk.*
James, Hermann Gerlach,	*Evanston.*
Lavery, Vaughan Metcalf,	*Evanston.*
Lawson, Blanche Belle,	*Chicago.*
Leslie, William Robert,	*Tolono.*
Long, Carl Samuel,	*Newman.*
Moore, Blanche Baldwin,	*Chicago.*

Schnitzer, Sidney,	*Chicago.*
Scott, Isaac Irving,	*Waipukura, N. Z.*
Watts, Lawrence Arthur,	*Chicago.*
Woodmansee, Cicero McGown,	*Evanston.*

MUSIC STUDENTS WITH SOME COLLEGE WORK.

Barlow, Ina Mabel,	*Bethany, Mo.*
Beckett, Bessie,	*Blue Mound.*
Berry, Ivy Belle,	*Savanna.*
Campbell, Hazel Barnes,	*Malvern, Ia.*
Christy, William Petrie,	*Evanston.*
Fansler, Clara Daisy,	*Evanston.*
Gurnee, Clara Lindsay,	*Waukegan.*
Hart, Ethel L.,	*Maryville, Mo.*
Hazelton, Jessie Lucia,	*Chicago.*
Lawrence, Helen,	*Ottawa.*
Peacock, Helen,	*Morris.*
Shotwell, Elizabeth,	*Evanston.*
Sohrbeck, Julia Marguerite,	*Moline.*
Stotler, Cora Mabel,	*Evanston.*

LAW SCHOOL STUDENTS WITH SOME COLLEGE WORK.

Howser, Roy Elroy,	*Indianola, Ia.*
McKinney, Fred Landin,	*Piqua, O.*
O'Donnell, Thomas V.,	*Bloomington.*

STUDENTS FROM GARRETT BIBLICAL INSTITUTE.

Smith, Walter Henry,	*Oakdale, Cal.*

THE MEDICAL SCHOOL.

SENIOR CLASS.

Allen, Lloyd Raymond,	*Iowa.*
Anderson, Cornelius Oscar, B.S., Knox College.	*Illinois.*
Arthur, Herbert Spencer,	*Pennsylvania.*
Avery, Ralph Washburn, B.S., University of Southern California.	*California.*
Ayling, Edmund Kent,	*Illinois.*
Balensiefer, Otto, Ph.G., Chicago College of Pharmacy.	*Illinois.*
Batson, William Van Pelt, M.D., Memphis Medical College.	*Indian Territory.*
Beam, Hugh Atlee,	*Iowa.*
Beebe, Jay Lee, Ph.G., B.S., South Dakota Agricultural College.	*Minnesota.*
Bowe, Frederick,	*Wisconsin.*
Bowen, Albert Sidney,	*Iowa.*
Boys, Charles Edward, B.S., Albion College.	*Kansas.*
Brown, Charles Elmer, M.D., Bennett Medical College.	*Illinois.*
Brown, Delmer Case, B.A., Toronto University.	*Illinois.*
Brown, Rexwald,	*Illinois.*
Bryant, John Howard,	*Illinois.*
Buckmaster, Raleigh Ankney,	*Iowa.*
Buford, Basil Duke,	*Illinois.*
Buhlig, Walter Herman, B.S., University of Chicago.	*Illinois.*
Burgman, Edward Gustave, D.D.S., Chicago College of Dental Surgery.	*Illinois.*
Carlson, Frank Gilbert,	*Iowa.*
Carlton, Clarence Light,	*Illinois.*
Cathcart, John Watson,	*Iowa.*
Clark, Charles Webster, M.D., Bennett Medical College.	*Illinois.*
Clark, John Sheldon,	*Illinois.*
Cole, Charles E., Ph.B., Illinois College.	*Illinois.*
Cole, James,	*Illinois.*
Collie, Henry Glenwood,	*Wisconsin.*

Comerford, Peril, *Wisconsin.*
Cook, Frederick, *Wisconsin.*
Cooley, William M., *Illinois.*
Crowley, Jay M., *Iowa.*
Cushway, Bert Charles, D.D.S., *Michigan.*
Northwestern University.
Daly, Thomas Patrick, *Iowa.*
Danforth, William Clark, B.S., *Illinois.*
Northwestern University.
Darling, Charles Gilchrist, M.D., *Illinois.*
National Medical College.
Delprat, John Charles, M.D., *Illinois.*
Bennett Medical College.
Dolder, Felix Charles, *Illinois.*
Duncan, William Percy, B.S., *Illinois.*
Illinois College.
Egeland, Gustaf Richard, *Wisconsin.*
Eiche, Frederick, *Nebraska.*
Erickson, Charles August, Ph.G., *Illinois.*
Northwestern University.
Fell, Egbert W., *Illinois.*
Fisher, Charles Edward, *Kansas.*
Francis, Frank D., A.B., *Illinois.*
University of Illinois.
Freeman, Harry Eben, B.S., *Illinois.*
University of Illinois.
Frink, Raymond Peter, *Iowa.*
Fyfe, Malcolm Brown, *Illinois.*
Gilmore, George Benjamin, *Kansas.*
Golden, Isaac John Kohn, M.D., *Illinois.*
Jefferson Medical College.
Golden, John Ferdinand, *Wisconsin.*
Goodwin, Clarence Gilbert, *Oklahoma.*
Grulee, Clifford Grosselle, A.M., *Illinois.*
Miami University.
Guilfoyle, Thomas Peter, *Illinois.*
Hanson, George Christian, B.S., *Illinois.*
Northern Indiana Normal School.
Harney, Louis Grason, *Illinois.*
Healy, Maurice Arthur, *Iowa.*
Hendricks, Earl Leslie, *Illinois.*
Hieber, Harvey G., Ph.G., *Iowa.*
University of Iowa.
Hillis, William Ervin, M.D., *Nebraska.*
Cotner University.
Hohf, Silas Matthew, M.D., *South Dakota.*
Illinois Medical College.
Holm, Edgar, *Iowa.*
Howland, Charles Francis, *Iowa.*
Janss, Edwin, *California.*

Jeffers, George Newton,	*Illinois.*
Jelstrup, Markus Fredrik Christian Bang, Ph.G., Christiauia University.	*Norway.*
Jungles, William Witry,	*Iowa.*
Kearns, Robert Joseph,	*Illinois.*
Kelly, Samuel Grant, Jr.,	*Missouri.*
Ketterer, Englebert August,	*Wisconsin.*
King, Oran West,	*Iowa.*
Kinsey, Frank Cameron, A.B., University of Michigan.	*Michigan.*
Kohlhass Otto Henry,	*Michigan.*
Langenfeld, Peter Frank,	*Wisconsin.*
Latimer, Fred Holman, M.D., Cleveland University of Medicine and Surgery.	*South Dakota.*
Layton, Edgar Nelson, A. B., Colorado College.	*Illinois.*
Leslie, James Frank,	*Indiana.*
Lowry, Carl Clement,	*Illinois.*
Lucas, Wilbur,	*Indiana.*
Lyon, Fred Bayard, Ph. G., Chicago College of Pharmacy.	*Kansas.*
Lyon, Paul Tiffy,	*Iowa.*
McBride, William Otis,	*Illinois.*
McDermott, Bernard Aloysius,	*Iowa.*
McDowell, William Stewart Irvin, M.D., Northwestern University.	*Illinois.*
McKean, Alex. C.,	*Iowa.*
Maggard, Delano Irwin, A.B., B.S., University of Kansas.	*Kansas.*
Mahoney, John James,	*Illinois.*
Martin, John Walter,	*Iowa.*
Mauermann, Julius Ferdinand,	*Wisconsin.*
Meehan, Joseph James,	*Iowa.*
Melzer, George R.,	*Wisconsin.*
Meyer, Henry Edward,	*Iowa.*
Millhon, Homer Benjamin,	*Illinois.*
Miner, Welty Daniel,	*California.*
Mitchell, Ezra Jay,	*Wisconsin.*
Mueller, Emil Frederick,	*Iowa.*
Murphy, William Linett,	*Iowa.*
Nauman, Oscar Walter, B.S., Missouri Valley College.	*Missouri.*
Nesbitt, Pleasant Pomeroy, B.S., University of Missouri	*Missouri.*
Newman, Fred McPherson,	*Iowa.*
Nims, Edward Albert,	*Iowa.*
Norris, Frank Ambrose,	*Iowa.*
O'Conner, Maurice Joseph,	*Iowa.*

Osgood, Luther James,	*Illinois.*
Poole, Charles Vibert Benyon,	*Illinois.*
Porter, Jesse B., A.B., Northwestern University.	*Illinois.*
Powers, Henry Waldo,	*Montana.*
Priest, Thomas William,	*Illinois.*
Randall, Andrew La Roy,	*Iowa.*
Rawles, Lyman Talmage, Ph.G., Northern Indiana Normal School.	*Indiana.*
Redmond, John Patrick,	*Iowa.*
Rogers, Herbert William,	*Minnesota.*
Runkle, George Darius,	*Illinois.*
Schmidt, Kark Henry,	*Minnesota.*
Schoenjahn, Walter Leroy,	*Iowa.*
Schussler, Hugh, M.D., Hering Medical College.	*Illinois.*
Siberts, Paul Raymond, B.S., Northwestern University.	*Illinois.*
Smead, Leslie Levant,	*Iowa.*
Smith, Clinton,	*Illinois.*
Smith, Carsten Christopher, A.B., University of Iowa.	*Iowa.*
Smith, Edward Vincent,	*Illinois.*
Spain, Clifford Robert,	*Kansas.*
Sprague, John Perley, A.B., Bates College.	*Illinois.*
Starr, Francis William,	*Wisconsin.*
Thomas, Henry Bascom, S.B., University of Chicago.	*Illinois.*
Tombaugh, John Letherman,	*Illinois.*
Van Camp, Elijah, Ph.B., Hamline University.	*North Dakota.*
Vogel, Carl Christian, M.D., Bennett Medical College.	*Illinois.*
Waggener, Jonathan Elisha, M.D., Bennett Medical College.	*Missouri.*
Welch, J. Stanley, B.Sc., University of Nebraska.	*Nebraska.*
Welsh, Fred Edwin,	*Iowa.*
Welsh, Thomas William,	*Iowa.*
Wesley, William Hasson,	*Pennsylvania.*
West, George Humphrey, B.S., South Dakota Agricultural College.	*Illinois.*
Wheeler, Frank Raymond, B.S., Illinois College.	*Illinois.*
Whiteside, Robinson Richard,	*Illinois.*
Williams, Rasmus Vallin, M.D., Bennett Medical College.	*Illinois.*
Wolfe, Channing Elmer,	*Iowa.*
Woods, Leonard Bouchner,	*Illinois.*

JUNIOR CLASS.

Alexander, William G., B.S., De Pauw University.	*Illinois.*
Andrews, Neil, A.B., Brown University.	*Rhode Island.*
Ankenbrandt, Albert Andrew,	*Illinois.*
Aplin, Floyd Walter,	*Wisconsin.*
Beckman, Henry Frederick,	*Indiana.*
Bentley, Henry Colgrove,	*Illinois.*
Bivins, Burton Wayne,	*Nebraska.*
Black, Robert Alfred,	
Blome, Frederic Michael,	*Illinois.*
Blue, Robert Bruce, A.B., Cornell College.	*Iowa.*
Blynd, George Theophilus, A.B., University of Wisconsin.	*Wisconsin.*
Bos, Cornelius N.,	*Illinois.*
Burfiend, George Herman,	*Montana.*
Burkland, Philip Richard, B.A., University of South Dakota.	*South Dakota.*
Burleson, Charles Emory,	*New York.*
Campana, Eugene George,	*Illinois.*
Carmichael, Francis Abbot,	*Colorado.*
Cartmell, Harry D.,	*Illinois.*
Coakley, Grover Cleveland,	*Iowa.*
Colburn, William Orlin,	*Iowa.*
Connell, James Albert,	*Illinois.*
Conover, Henry Frank,	*Wisconsin.*
Cooney Edward,	*Wisconsin.*
Cox, James Peter,	*Wisconsin.*
Cressler, Frank Earnest,	*Iowa.*
Deal, Don West,	*Illinois.*
Dunkle, Frank, Ph.G., Ada College of Pharmacy.	*Ohio.*
Dyas, Frederick George,	*Illinois.*
East, Clarence Wilson,	*Illinois.*
Emrick, Mortimer Elihue,	*Illinois.*
Evans, Frank Butler,	*Iowa.*
Ferrell, Barney, B.S., Northern Indiana Normal College.	*Illinois.*
Fisher, Albert M.,	*Nebraska.*
Fitz Jerrell, Harry Bacon,	*Illinois.*
Fosse, Benjamin, B.A., Beloit College.	*Illinois.*
Fulton, Claire W.,	*Illinois.*
Galbreth, Jesse Plemy,	*Indiana.*

Gannaway, Charles Robertson, *Iowa.*
Gelow, John Ernest, Ph.G., *Indiana.*
Valparaiso College.
George, Shaul, B.S., *Persia.*
Northern Indiana Normal School.
Godfrey, Almon T., A.B., *Michigan.*
Hope College.
Graser, Charles John, Ph.G., *Illinois.*
Northwestern University.
Grayston, Wallace Slack, *Indiana.*
Griswold, Walter Stanley, B.A., *Washington.*
University of Washington.
Grove, Eugene Hayes, Ph.G., *South Dakota.*
South Dakota Agricultural College.
Guilfoyle, John Peter, *Illinois.*
Hagan, John, *Iowa.*
Hagan, Martin, *Iowa.*
Hargreaves, Oliver Cromwell, Ph.G., *Illinois.*
Northern Indiana Normal School.
Haury, Samuel David, *Kansas.*
Heiges, Lawrence E., B.S., *Ohio.*
Hiram College.
Hercules, Clarence Oraville, *Ohio.*
Hinman, Clayton Jay, B.S., *Illinois.*
University of Southern California.
Holmes, Jesse George, B.S., *Iowa.*
Tabor College.
Hoyt, William Judson, *Illinois.*
Hoff, Gustav Carl, *Minnesota.*
Hubbard, Orton, *Illinois.*
Huene, Harry James, *Iowa.*
Hyett, James Erfert, B.S., *Kansas.*
Washburn College.
Isaacs, Charles Francis, *Iowa.*
Jern, J. Hjalmar, *Wisconsin.*
Johnston, Ellis A., B.S., *Nebraska.*
University of Nebraska.
Kaley, Clifford M., *Illinois.*
Karshner, Warren Melvin, B.S., *Washington.*
University of Washington.
Keating, William Walter, Ph.G., *Wisconsin.*
Indiana College of Pharmacy.
Kern, Nicholas Henry, *Illinois.*
Kilbourn, Edward D., *Kansas.*
Kinnear, Theron James, A.B., *Kansas.*
Kansas University.
Koch, John Valentine, *Ohio.*
Kretschmer, Herman L., Ph.G., *Illinois.*
Northwestern University.
Kyle, William Simpson, *Iowa.*

Laughlin, Daniel Joseph,	*Iowa.*
Lemery, Benjamin David,	*Illinois.*
Leslie, James Thomas,	*Illinois.*
Lowis, William John,	*Iowa.*
Lyon, John Dexter, B.D., Iowa State Normal School.	*Iowa.*
McDeed, Winfield Grant,	*Illinois.*
McGinnis, Edwin, A.B., University of Michigan.	*Illinois.*
McMillan, Edwin Harbaugh, Ph.G., Pittsburg College of Pharmacy.	*Pennsylvania.*
Malloy, Edward,	*Iowa.*
Malone, Francis Andrew,	*Wisconsin.*
Malone, Francis Frederick, B.Sc., University of Nebraska.	*Nebraska.*
Mandel, Milton,	*Illinois.*
Marselus, Harry Edwin,	*Nebraska.*
Martin, Manfred Robert,	*Illinois.*
Martin, Thomas Edwin,	*Iowa.*
Mason, James Howard,	*Iowa.*
Mattison, Samuel Jones, Jr.,	*Maryland.*
Miller, Anson Torrence,	*Iowa.*
Miner, Elmer Andrew, Ph.B., Northwestern University.	*Illinois.*
Mitchell, Robert Sanford,	*Nebraska.*
Moessner, Frederick Richard,	*Wisconsin.*
Mollinger, Simon Matthew,	*Wisconsin.*
Mulvaney, Frank Mathias,	*Wisconsin.*
Murphy, John Campbell,	*Iowa.*
Myers, John Proctor,	*Oregon.*
Newmann, William Henry, Ph.C., University of Minnesota.	*Minnesota.*
Nolan, John Joseph,	*Illinois.*
Nolte, Willis Clever,	*Iowa.*
Norcross, Edward P.,	*Wisconsin.*
Oakes, Robert Allan,	*Indiana.*
O'Callaghan, Charles Daniel,	*Illinois.*
Orr, Harry Delphos, B.S., Kansas State Agricultural College.	*Kansas.*
Owen, Carl Shuey, Ph.B., Oberlin College.	*Illinois.*
Pavlik, Otto Steve, Ph.G., Northwestern University.	*Illinois.*
Perkins, Edwin L.,	*South Dakota.*
Peters, Arthur Otway,	*Ohio.*
Phelps, Frank Wesley, B.S., Northwestern University.	*Illinois.*

Rain, Charles William,	*Nebraska.*
Redmond, Thomas Michael,	*Iowa.*
Reese, Henry Lindley, M.A., University of Washington.	*Washington.*
Rideout, Merton Elbridge,	*Wisconsin.*
Rittenhouse, Walter,	*Illinois.*
Robinson, Parker Burdell, B.S., Ohio Normal University.	*Ohio.*
Sarazin, Joseph James,	*Michigan.*
Sawyer, Charles Francis,	*Wisconsin.*
Schofield, Joseph Robert, B.S., University of Nebraska.	*Nebraska.*
Schrup, Joseph Henry,	*Iowa.*
Sherman, Benjamin Harry,	*Iowa.*
Sidley, John Streeter,	*Illinois.*
Slater, Edgar Charles,	*Illinois.*
Sleeper, Lawrence Edward,	*Iowa.*
Smith, C Colfax, Ph.G., Drake University.	*Iowa.*
Smith, Carroll Lee, B.S., University of Idaho.	*Washington.*
Snow, C. Goodrich,	*Illinois.*
Spurgeon, Glenn Charles, Ph.B., Colorado College.	*Iowa.*
Stauffer, Walter Allen,	*Indiana.*
Stephens, Oliver Zuingles, A.B., Austin College.	*Illinois.*
Stewart, John Hardin,	*Illinois.*
Still, George Anderson, B.S., Drake University.	*Iowa.*
Struve, Carl Philip,	*Wisconsin.*
Struzynski, Walter,	*Illinois.*
Talbot, Charles Albert,	*Missouri.*
Thompson, Nathan Lincoln, Ph.G., Philadelphia College of Pharmacy.	*Vermont.*
Van Buren, Arthur,	*Iowa.*
Wagener, Nicholas Zephronius,	*Wisconsin.*
Warhanik, Charles Augustus, Ph.G., University of Illinois.	*Illinois.*
Weddle, Charles,	*California.*
Werner, Fred,	*Illinois.*
Whitcomb, Orrin John, Ph.B., Hamline University.	*Minnesota.*
Wilson, Harold Kenneth,	*Missouri.*
Wilson, Walter Lewis,	*Missouri.*
Wolfe, Vogt Gales,	*Ohio.*
Wolff, Maurice Berwin,	*Illinois.*
Woodruff, Robert Henry,	*Iowa.*

Woods, Arthur Waterston, B.S., *Illinois.*
Northwestern University.
Wright, Frank, Ph.C., *Illinois.*
Northwestern University.
Zierath, William Frederick, *Wisconsin.*

SOPHOMORE CLASS.

Anderson, Axel Walfrid, B.S., *Illinois.*
Northwestern University.
Anglin, George Washington, *Indiana.*
Atkinson, James Robert, D.D.S., *Canada.*
Royal College of Dental Surgery.
Bardwell, Walter Stanley, *Pennsylvania.*
Barry, Shirley De Vere, *Washington.*
Beaumont, Edgar Chetwynd, *Texas.*
Beecher, Charles Edwin, *Wisconsin.*
Belsan, James Calvert, A.B., *Illinois.*
St. Ignatius College.
Bessesen, William Aaron, A.B., *Minnesota.*
University of Minnesota.
Blankmeyer, Harry C., Ph.G., *Ohio.*
Ada College of Pharmacy.
Blewett, Martin, *Wisconsin.*
Blowers, Walter May, *Iowa.*
Bradway, Everett Haworth, A.B., *Illinois.*
Hedding College.
Brandt, George Carl, D.D.S., *Iowa.*
Northwestern University.
Brecht, Ernest Adolph, Ph.G., *South Dakota.*
Northwestern University.
Bromund, Emil Herrmann, *Illinois.*
Brooks, Earl Brisbin, B.S., *Nebraska.*
State University of Nebraska.
Budge, Thomas, D.D.S., *Idaho.*
Chicago College of Dental Surgery.
Burbach, William Martin, *Illinois.*
Burleigh, Benjamin Wade, A.B., *Illinois.*
Yankton College.
Cater, George Henry, B.S., *Illinois.*
Northwestern University.
Chase, Ezra Dwight, *Minnesota.*
Clements, Robert, *Illinois.*
Combs, Burr, *Iowa.*
Crawford, Clyde Houston, *Illinois.*
Crouch, John Baker, *Illinois.*
Crumpacker, Chester Blaine, *Indiana.*
Curfman, George Hardin, Ph.B., *Missouri.*
Northwestern University.
Doane, Bert L., B.Sc., *Nebraska.*
University of Nebraska.

Doolittle, John Carlyle,	*Wisconsin.*
Dowling, George Aiken,	*Minnesota.*
Dyer, John Sidney,	*Iowa.*
Egloff, George Eugene,	*Iowa.*
Ehlers, Frederick Ferdinand, D.D.S., Northwestern University.	*Illinois.*
Ellenbaum, Frank Henry, Ph.C., Northwestern University.	*Illinois.*
Else, John Earl, Ph.G., B.S., South Dakota Agricultural College.	*Washington.*
Engelbrectson, Ferdinand,	*Illinois.*
Engelson, Christian Johan, Ph.G., Northwestern University.	*South Dakota.*
Everett, Oliver W.,	*Nebraska.*
Fahrner, Walter Jewett,	*Illinois.*
Fair, Frederick Ferdinand,	*Illinois.*
Froid, Clarence Mauritz,	*Nebraska.*
Gates, Adam John,	*Wisconsin.*
Goebel, Alfred William,	*Wisconsin.*
Gooder, William Vernon,	*Wisconsin.*
Goodrich, Joseph Albert, B.S., Highland Park College.	*Iowa.*
Grant, Oliver Perry,	*Illinois.*
Guenthner, Erhard,	*South Dakota.*
Gulde, William Charles,	*Iowa.*
Hamilton, Joseph Thomas S.,	*Illinois.*
Hart, Bertrand Maynars, Ph.G., B.S., South Dakota Agricultural College.	*Wisconsin.*
Hoglund, Emil J.,	*Illinois.*
Holcomb, Oscar William, Ph.G., Minnesota Institute of Pharmacy.	*Minnesota.*
Homan, Carl August,	*Illinois.*
Hopper, Claire, B.S., Cornell College.	*Iowa.*
Howard, William Arthur,	*Iowa.*
Hummel, Ray Orvin, B.Sc., University of Nebraska.	*Nebraska.*
Jacobson, Alfred Frederick,	*Wisconsin.*
James, Ralph Ward,	*Iowa.*
Johannes, Henry Charles,	*Illinois.*
Jordan, George Thomas, B.S., University of South Dakota.	*South Dakota.*
Kay, Milton,	*Oregon.*
Keating, William Dennis,	*Illinois.*
Kelly, John Edward,	*Wisconsin.*
Kerntopf, Robert C., Ph.G., Brooklyn College of Pharmacy.	*Illinois.*
Kershner, Frank Otho, A.B., University of Kansas.	*Kansas.*

King, Hiram Irving,	*Wisconsin.*
Klontz, Charles Edward,	*Illinois.*
Knoop, William Albert,	*Illinois.*
Krost, Robert Agedius, B.S., Notre Dame University.	*Indiana.*
Kuntz, Wesley W.,	*Illinois.*
Larimer, Guy Wayne, A.B., Northwestern University.	*Iowa.*
Libberton, Raymond Claude, B.S., Northwestern University.	*Illinois.*
Lilly, John Mathew,	*Illinois.*
Little, George Reed,	*Kansas.*
Lynch, Daniel Webster,	*Wisconsin.*
McCord, William Charles,	*Pennsylvania.*
McElroy, Lee, B.S., Knox College.	*Illinois.*
McEwan, John Singer,	*Mexico.*
McGauley, Francis Martin,	*Wisconsin.*
McIntosh, John Jerome,	*Illinois.*
McQuilkin, George Arthur,	*New York.*
Magee, William George,	*Iowa.*
Manley, Richard Sabin,	*Illinois.*
Martin, George Henry,	*Illinois.*
Mead, David Oscar,	*Illinois.*
Medlar, Clyde Avery,	*Nebraska.*
Meusel, Harry Herwin,	*Wisconsin.*
Miller, Floyd R.,	*Illinois.*
Minnick, Clarence,	*Nebraska.*
Mitchell, Joseph Henry,	*Iowa.*
Morey, John,	*Louisiana.*
Moore, Levas Scott,	*South Dakota.*
Munro, John Donald,	*Michigan.*
Myerovitch, Isadore Leon,	*Indiana.*
Nauss, Ralph Welty, B.Sc., Ohio State University.	*Ohio.*
Newell, George Warren,	*Wisconsin.*
Newton, Herman Christian, D.D.S., Northwestern University.	*Illinois.*
Nieman, George H., Ph.C., University of Kansas.	*Oklahoma.*
O'Brien, Joseph Eugene,	*Illinois.*
Olschner, Berthold Robert,	*Illinois.*
Peck, David Billings,	*Illinois.*
Peterson, Fred William, A.B., University of Wisconsin.	*Wisconsin.*
Phillips, John Gilbert,	*Michigan.*
Rahling, Leo Henry,	*Illinois.*

Ranney, Thomas Pollock,	*Iowa.*
Reiss, Oscar,	*Illinois.*
Reyher, Chris Michel,	*Indiana.*
Riordan, John Francis,	*Indiana.*
Robinson, James Henry,	*Illinois.*
Rowe, Charles Edgar, Ph.G., Northwestern University.	*Wisconsin.*
Rudolf, Solomon Francis,	*Wisconsin.*
Schaefer, John Ferdinand,	*Illinois.*
Schaefer, Rudolph A.,	*Nebraska.*
Schroeder, George Fred Carl, Ph.G., Northwestern University.	*Illinois.*
Scroggy, John Quincy Adams, Ph.G., Northwestern University.	*Iowa.*
Shewbridge, Edward Benedict,	*Illinois.*
Shippey, Roderick Hoffman,	*Illinois.*
Smelker, Van Archibald,	*Wisconsin.*
Smith, Arthur Hensley, A.B., Northwestern University.	*Illinois.*
Stahl, Silas Sterling, A.M., Drury College.	*Illinois.*
Stegmayer, Charles Gotlieb, Ph.G., University of Illinois.	*Illinois.*
Stribling, James Wiley,	*Iowa.*
Thomas, Harlay Angus,	*Wisconsin.*
Thompson, Orris Martin,	*Illinois.*
Tobey, Willis Gutner, A.B., Otterbein University.	*Illinois.*
Trewhella, James,	*Michigan.*
Trewyn, William Thomas,	*Wisconsin.*
Vedder, Harry Albert,	*Wisconsin.*
Vedder, James Blaine,	*Wisconsin.*
Waldner, John L.,	*South Dakota.*
Waldschmidt, William Jacob,	*Wisconsin.*
White, Hugh James,	*Illinois.*
Wilson, Julius Henry,	*Illinois.*
Wittman, Anthony George,	*Illinois.*
Wood, George Augustus,	*Oregon.*
Yerger, Charles Francis, Ph.G., Northwestern University.	*Illinois.*

FRESHMAN CLASS.

Abraham, A. H.,	*Illinois.*
Aschauer, Henry August,	*Illinois.*
Babbitt, Oliver Miller,	*Illinois.*
Baker, Carl,	*Illinois.*
Ballance, Charles, Jr.,	*Illinois.*

Beardsley, John Wallace,	*Indiana.*
Blood, Roscoe Paramore,	*Illinois.*
Booker, Arthur John,	*Texas.*
Bradford, Ralph Brayton, A.B., Amity College.	*Iowa.*
Briggs, Walter Roscoe,	*Illinois.*
Brown, Charles William, Ph.C., Northwestern University.	*Illinois.*
Brown, Rj. Newman,	*Michigan.*
Burke, Charles B.,	*Iowa.*
Burton, Edgar Curtis,	*Illinois.*
Chapline, Frank Le Roy,	*Illinois.*
Clement, Charles Clinton, A.B., Illinois College.	*Illinois.*
Cohn, Harry,	*Illinois.*
Conover, John Lindsay,	*Wisconsin.*
Coole, Thomas H., A.B., Baker University.	*Illinois.*
Corwin, Charles T., B.A., Tri-State Normal College.	*Indiana.*
Crist, Otto H.,	*Indiana.*
Culbertson, Fred David,	*Iowa.*
Dailey, Ulysses Grant,	*Texas.*
Dale, Ernest Arthur,	*Illinois.*
De Kleine, William, A.B., Hope College.	*Michigan.*
Dietrich, Lewis Samuel, Ph.B., Simpson College.	*Iowa.*
Donohue, Eugene Joseph,	*Wisconsin.*
Driscoll, James Patrick,	*Wisconsin.*
Duntley, Geo. Silas, Ph.G., Northwestern University.	*Illinois.*
Easton, Milo Tripp,	*Illinois.*
Felts, Harry B.,	*Wisconsin.*
Foster, Edwin Henry Tobias,	*Ohio.*
Frush, Henry Lindley, B.S., Parsons College.	*Iowa.*
Gill, George Patrick,	*Illinois.*
Gleason, Bert Fuller,	*Iowa.*
Grant, William Robert,	*Illinois.*
Green, John Albert,	*Illinois.*
Groff, Ollie Aloysius Alfred,	*Iowa.*
Hall, Herbert Edward, A.B., Otterbein University.	*Illinois.*
Hand, William Cory,	*Iowa.*
Haugen, Hans,	*North Dakota.*
Heath, Clifford Jackson,	*Wisconsin.*
Hendricks, Hiram Porter,	*Illinois.*

Hershfield, Alexander Sandor,	*Illinois.*
Hinchion, Timothy Richardson,	*Iowa.*
Hoagland, Charles Clinton, A.B., University of South Dakota.	*South Dakota.*
Hockrein, George Walker,	*Wisconsin.*
Hohf, Julius Amos, B.S., Freemont Normal School.	*South Dakota.*
Hottinger, Irwin Stauer,	*Illinois.*
Hubbard, John Hyrum,	*Utah.*
Hubbell, Harlan,	*Illinois.*
Hulbert, Edwin Claire,	*Illinois.*
Hughes, John Elmer,	*Missouri.*
Hutcheson, Bellenden Seymour,	*Illinois.*
Iddings, John Warren,	*Indiana.*
Ingham, Cecil,	*Illinois.*
Ingraham, Eben Russell,	*Pennsylvania.*
James, Lora Douglas,	*Iowa.*
Jeffrey, Alexander Balfour, Ph.B., Simpson College.	*Iowa.*
Jeffries, Willard Guy,	*Iowa.*
Keyser, Ralph Emmert,	*Illinois.*
Knight, Thomas Fenton,	*California.*
Lambert, Oscar Bernhardt,	*Michigan.*
Lander, David Burnette,	*Wyoming.*
Lehrbach, Lester Martin,	*Wisconsin.*
Lewison, Maurice,	*Illinois.*
Lister, William Weaver,	*Illinois.*
Lynch, Robert J.,	*Iowa.*
McPherson, Fayette,	*Illinois.*
Melody, Spart Lawrence,	*Illinois.*
Merrill, Heber Kimball, A.B., B.P., Brigham Young College and University of Utah.	*Utah.*
Merrill, Preston Reynolds,	*Utah.*
Mertz, Ezra Franklin, Ph.B., Cornell College.	*Iowa.*
Meyers, Harry Louis,	*Illinois.*
Miller, George Alexander,	*Washington.*
Miller, William H.,	*Illinois.*
Moeller, Frederick William,	*Illinois.*
Moes, Mathias Joseph,	*Iowa.*
Moreland, Wilber,	*Illinois.*
Morton, Edward Earl,	*Illinois.*
Munn, Wayne Alonzo,	*Illinois.*
Napheys, William Davison,	*Illinois.*
Nauth, Daniel Fredericke,	*Wisconsin.*
Nelson, Nels Christian,	*Oregon.*

Norby, Charles Philip, M.S., University of Texas.	*Texas.*
Oldham, Ernest Price,	*Utah.*
Parker, Gerald Campbell,	*Illinois.*
Pascoe, Henry Roscoe, Ph.B., Simpson College.	*Iowa.*
Pengelly, Edward John,	*Wisconsin.*
Penney, Warren Bert,	*Iowa.*
Peterson, Charles Frederick,	*Wisconsin.*
Peterson, John Henry,	*Illinois.*
Piper, Lawrence Phillipp,	*Illinois.*
Ray, Herbert Andrew,	*Indiana.*
Reineck, Charles,	*Wisconsin.*
Roberts, Philip F.,	*Illinois.*
Roach, Richard Aloysius,	*Illinois.*
Rosenzweig, Louis,	*Illinois.*
Salyers, John Oswell,	*Illinois.*
Senn, Christian Ulrich,	*Wisconsin.*
Seyfarth, Clarence Alexander,	*Illinois.*
Silverthorn, Frank Ross,	*Wisconsin.*
Slater Ernest William,	*Illinois.*
Smith, Harvey,	*Illinois.*
Snowden, Robert Hurst,	*Iowa.*
Stevenson, Robert Guy,	*Minnesota.*
Stoll, Arthur Hugh,	*Wisconsin.*
Storer, Nellie Spooner,	*Ohio.*
Stough, Clark Parker,	*Illinois.*
Streuter, Albert Frank,	*Illinois.*
Teitgen, Arthur,	*Wisconsin.*
Thompson, John Godfrey,	*Minnesota.*
Tucker, Walter G.,	*England.*
Tullar, Arthur,	*Illinois.*
Van De Mark, Guy Ernest,	*South Dakota.*
Walker, George Stanbery,	*Illinois.*
Wallace, James Wilson,	*Illinois.*
Whiteside, Jesse Dubois,	*South Dakota.*
Wood, Roscoe David,	*Illinois.*
Woodward, Clayton Emory,	*Illinois.*
Yudelson, Albert Bernard,	*Illinois.*

SPECIAL STUDENTS.

Alschuler, Maurice,	*Illinois.*
Ayres, Daniel Francis,	*Illinois.*
Baldwin, Charles Frederick,	*Wisconsin.*

Beach, William Henry,	*Nebraska.*
Bell, Elexious Thompson, B.S.,	*Missouri.*
Bigelow, George,	*Iowa.*
Black, Andrew E.,	*Iowa.*
Boyden, Frank E., Ph.G., B.S., South Dakota Agricultural College.	*South Dakota.*
Boyington, Charles Barker,	*Illinois.*
Bramhall, Robert Nicholas,	*Illinois.*
Buckner, Arthur Jefferson,	*Indian Territory.*
Cahill, Thomas A.,	*Illinois.*
Cannon, William Patrick,	*Illinois.*
Carey, Henry Benjamin, B.S., University of Minnesota.	*Minnesota.*
Cater, George Henry, B.S., Northwestern University.	*Illinois.*
Cheney, Volney Schaffer,	*Illinois.*
Churchill, Charles Fielding,	*Illinois.*
Clyne, Mead,	*Illinois.*
Conner, William Henry, A.B., Northwestern University.	*Illinois.*
Cunningham, Joseph Louis,	*Wisconsin.*
Elliott, E. S.,	*Wisconsin.*
Fitzpatrick, Charles James,	*Illinois.*
Frederick, Cary Dennie, A.B., Chaflin University.	*South Carolina.*
Gorgas, Laurence De Lancy, D.D.S., M.D., Baltimore College of Dental Surgery and University of Maryland.	*Illinois.*
Gratiot, William M.,	*Illinois.*
Gray, Edwin Wilson,	*Illinois.*
Greenwald, William Charles Edward,	*Indiana.*
Griswold, Charles Maust, Ph.G., Philadelphia College.	*Illinois.*
Hagyard, Charlton E.,	*Iowa.*
Hoffman, Coleman Lovejoy,	*Illinois.*
Huston, Samuel Wesley,	*Iowa.*
Hutchinson, L. A.,	*Missouri.*
Jackson, J. E.,	*Illinois.*
Jones, J. B.,	*Illinois.*
Kemp, H. B.,	*Illinois.*
Long, William E.,	*Michigan.*
Lurie, Gottlieb,	*Illinois.*
McKeown, Elmer Edwin,	*Colorado.*
Magie, Woodbury Watkins,	*Minnesota.*
Miner, R. Scott, A.B., Knox College.	*Illinois.*
Mitchell, Forrest Moore,	*Ohio.*
Mueller, J. A., M.D.,	*Iowa.*

Murphy, William Thomas,	*Wisconsin.*
Parks, Samuel Joseph,	*Illinois.*
Pfister, Leon L.,	*Illinois.*
Potter, Peter,	*Iowa.*
Ritchey, William McIntosh,	*Pennsylvania.*
Ryan, Edward Francis,	*Illinois.*
Schimelfenig, Isaac Clarence,	*Illinois.*
Shapiro, Jacob Bernard,	*Illinois.*
Siebel, John Ewald, Jr., Ph.C., Northwestern University.	*Illinois.*
Sneed, Carl Miller, M.D., Missouri State University.	*Missouri.*
Stacy, George Herbert,	*Illinois.*
Tannous, Tannous Ferris,	*Illinois.*
Trumbull, F. M.,	*Illinois.*
Turner, William Henry, M.D., Missouri State University.	*Missouri.*
Wallace, E. J., M.D., Missouri Medical College.	*Missouri.*
Walsh, Thomas John,	*Indiana.*
Wells, Harry Wilson,	*Kansas.*
Williams, Robert L.,	*Iowa.*
Wooley, Walter Thomas, B.S., Illinois Wesleyan University.	*Illinois.*
Zurawski, F. N.,	*Illinois.*

THE LAW SCHOOL.

FIRST YEAR.

Best, John Henry,	*Quincy.*
Boggs, Richard Lee,	*Fairfield.*
Bohan, Edmund Russel,	*Los Angeles, Cal.*
Brink, Hal L.,	*Red Oak, Ia.*
Carleton, Charles Harvey,	*Chicago.*
Cashel, Thomas Daniel,	*East St. Louis, Ill.*
Cline, Norris Burt,	*Appleton City, Mo.*
Crafts, Maurice Wilbur, Ph.B., Kenyon College.	*Chicago.*
Crumpacker, Shepard, B.S.. Northwestern University.	*Westville, Ind.*
Coman, Warren Eugene,	*Chicago.*
Davis, Charles Henry,	*Greeley, Ia.*
Dennis, Roger Lee,	*Traer, Ia.*
Dewes, Edwin Pierre, A.B., Harvard University.	*Chicago.*
Dobbin, David C.,	*Stronghurst.*
Dove, Theodore Clark,	*Shelbyville.*
Downes, Earle Raymond,	*Harvard.*
Eggert, Alfred R.,	*Charles City, Ia.*
Ferguson, Charles L.,	*Mendota.*
Fifer, Ernest Reynolds, B.S., Northern Indiana Normal College.	*Chicago.*
Fulton, Louis Reginald, A.B., Knox College.	*Gibson City.*
Gannon, Edward,	*Chicago.*
Geringer, John Charles,	*Chicago.*
Gunther, Miss Attilia,	*Chicago.*
Hamilton, Elisha Bentley, A.B., Illinois College.	*Quincy.*
Helms, Otto Herbert,	*Chicago.*
Herman, Charles Jacob,	*Chicago.*
Hinman, Asahel Albert,	*Perry.*
Howser, Roy E.,	*Indianola, Ia.*
Hughes, Arthur Freeman,	*Springfield.*
Hupp, Frank Leslie,	*Long Point.*
Johnson, Edgar H., A.B., Princeton University.	*South Bend, Ind.*
Kersten, Walter George,	*Chicago.*

Kostner, Joseph Otto, *Chicago.*
Lewis, Harry Chester, *Mendota.*
Lynde, Cornelius, *Chicago.*
A.B., Williams College.
Mackenzie, Rex, *Chicago.*
A.B., Princeton University.
Manning, Horace Milton, *Chicago.*
May, William Green, *Evanston.*
Meusel, Oscar Moretz, *Oshkosh, Wis.*
Milne, William, *Scotland.*
Arbrorath Collegiate Institute, Arbrorath, Scotland.
Murdock, Max, *Streator.*
McKinney, Fred Landin, *Piqua, Ohio.*
Osborne, Harold S., *Chicago.*
A.B., Williams College.
Ott, John Nash, *Chicago.*
B.A., Amherst College.
Pierson, Ward Wright, *Wilmette.*
B.S., Northwestern University.
Pirosh, George Bertram, *Chicago.*
Pitte, Hugo Lewis, *Chicago.*
Putnam, Karl Frederick, *Mt. Carmel.*
Quitman, Walter, *Chicago.*
Rosenblum, Harry Moses, *Evanston.*
Ryden, Otto Gustaf, *Evanston.*
Sadler, Monte Hanauer, *Cairo.*
Sargent, Jean F., *Hurley, S. D.*
Scheiner, Frank Harry, *Chicago.*
Ph.B., Northwestern University.
Schmitt, Felix Harold, *Chicago.*
Seney, Edgar F., *Chicago.*
Strickland, Amos Aaron, *Chicago.*
Swigert, Robert Guy, *Chicago.*
Talcott, Harry Harvey, *Chicago.*
A.B., University of Michigan.
Taylor, David, *Chicago.*
Ward, Charles A., *St. Joseph, Mich.*
Warner, George, *Somonauk.*
Wengierski, Julius Francis, *Chicago.*
Wheklinski, John Benjamin, *Chicago.*
Williams, James Edward, *Emmetsburg, Ia.*
Wright, Adelbert S., Jr., *Woodstock.*

SECOND YEAR.

Adelman, Abram, *Chicago.*
Banning, Walker, *Chicago.*
Barber, Clayton Jackson, *Springfield.*
Ph.B., Illinois College.

Bates, Alfred Ricker, *Evanston.*
Bays, Alfred William, *Enfield.*
B.S., Knox College.
Brown, Thomas Baldwin, *Chicago.*
Butler, Herbert Benjamin, *Springfield.*
Campbell, Herbert John, *Riverside.*
A.B., University of Michigan.
Clark, Edwin Oliver, *Whitefield, I. T.*
A.B., Central University.
Fairchild, Sherman DeWitt, *Sullivan.*
Fischer, Henry Fred, *Addison.*
Follett, Otis William, *Libertyville.*
Grover, George Oliver, *Leland.*
Hagens, Graddus Remley, *Pella, Ia.*
A.B., Central College.
Hart, Merwin Michael, *Chicago.*
Johnson, Alton Francis, *Chicago.*
Kepler, Louis Howard, *Mt. Vernon, Ia.*
Ph.B., Cornell College.
Krueger, Nathan L., *Chicago.*
Lang, Joseph Ignatius, *Woodstock.*
Lindhout, Dingnus Kloppenburg, *Chicago Heights.*
Louis, George L., *Chicago.*
Manierre, Louis, *Chicago.*
A.B., Yale University.
Meek, Marcellus Woltz, *Chicago.*
Miller, Albert Grant, *Chicago.*
McAuley, Henry Sayes, *Chicago.*
A.B., Yale University.
Rutter, Rhea Barton, *Highland Park.*
A.B., Williams College.
Sherlock, Carl Garfield, *Riverside.*
Spencer, Charles Hopkins, *Rock Island.*
A.B., Wesleyan University.
Trude, Daniel Pearson, *Chicago.*
Wiles, Russel, *Chicago.*
S.B., University of Chicago.

THIRD YEAR.

Baird, Jasper Arthur, *Carthage.*
A.B., Carthage College.
Block, Manfred Sickle, *Platteville Wis.,*
B.L., University of Wisconsin.
Case, Charles Center, *Cherry Valley.*
Clark, John Woodbury, *Paw Paw.*
Crafts, Harry Kent, *Chicago.*
A.B., University of Michigan.
Crilly, Oliver Daniel, *Chicago.*
A.B., Harvard University.

Daly, Charles Lawrence, *Chicago.*
Deering, Thomas Gardner, *Chicago.*
Devine, John J., *Chicago.*
Dunbar, David Owen, *Center Point, Ia.*
B.S., Cornell College; A.B., Columbia University.
Eberhardt, Alfar Maximilian, *Chicago.*
Eschbach, Jesse Ernest, *Warsaw, Ind.*
Ph.B., Otterbein College.
Ferrell, Hosea V., Jr., *Carterville.*
Frank, Lee Julius, *Chicago.*
A.B., University of Chicago.
Guthman, Roy, *Youngstown, Ohio.*
Headen, Thomas Moulton, *Shelbyville.*
A.B., University of Illinois.
Kahn, Julius Maurice, *Petersburg.*
A.B., Northwestern University.
Kay, Fred Hans, *Chicago.*
Keating, James Williams, *Chicago.*
Keep, Albert, 2d, *Chicago.*
Kidder, Royce Annan, *Sterling.*
Knapp, William Proctor, *Chicago.*
Ph.B., Iowa College.
Kompel, Morris, *Chicago.*
B.L., Northwestern University.
Kropf, Victor Gustav, *Richland, Kan.*
A.B., Washburn College.
Lamar, Clyde Park, *Chicago.*
Lee, Curtis Gillmore, *Chicago.*
Matthews, Jacob Scott, *Chicago.*
A.B., Michigan University.
Mayer, Elias, *Chicago.*
A.B., Harvard University.
McKinney, Marion Hayes, *Chicago.*
Mergentheim, Morton Adolph, *Ft. Wayne, Ind.*
A.B., A.M., University of Chicago.
Mills, Matthew, *Chicago.*
A.B., Yale University.
Murphy, Edward James, *Evanston.*
McNulta, Donald, *Chicago.*
Niles, John Addison, *Chicago.*
Odell, Benjamin Franklin Jefferson, *Chicago.*
O'Donnell, Thomas Vincent, *Bloomington.*
LL.B., Indiana University.
Peckham, John Judah, *Geneva.*
A.B., Harvard University.
Peterson, Earl Lloyd, *Rockford.*
Phillips, Paul B., *Wheaton.*
A.B., Wheaton College.
Quinlan, Thomas Ambrose, *Chicago.*
A.B., A.M., St. Mary's University.

Quinn, Leonard Daniel, *Kewanee.*
Rose, Charles George, *Chicago.*
Rosenberg, Hyman, *Chicago.*
Rosenstone, Bertram W., *Chicago.*
Schafer, Frank Boeshair, *El Paso.*
Shaw, Joseph Laurence, *Geneseo.*
A.M., University of Wisconsin.
Swigert, Harry Amos, *Council Bluffs, Ia.*
Thomasson, Nelson, Jr., *Chicago.*
A.B., Princeton University.
Thomsen-von Colditz, Sandor, *Chicago.*
Todd, Leroy Levi, *Milledgeville.*
Van Voorst, Fred, *Monticello, Ind.*
Welch, Robert Leslie, *Des Moines, Ia.*
A.B., University of Chicago.
Whitely, Arthur Laurence, *Evanston.*
B.A., Williams College.

SPECIAL STUDENTS.

Amory, E. P., *Chicago.*
Barnes, Chester Davis, *Kenosha, Wis.*
Buntain, Cassius M. Clay, *Momence.*
A.B.; A.M., LL.B., Northwestern University.
Childs, Robert, *Chicago.*
LL.B., Harvard University.
Christopher, Henry Raymond, *Chicago.*
Clendenning, Thomas C., *Chicago.*
Cleveland, Frank Clayton, *Chicago.*
Ph.B., University of Chicago.
Cox, Howard Malcolm, *Chicago.*
Davis, Oliver Colenel, *Evanston.*
Dietz, Cyrus Edgar, *Gilman.*
A.B., LL.B., Northwestern University.
Dougherty, Ralph, *Chicago.*
LL.B., Harvard University.
Drury, F. H., *Chicago.*
Eckhart, Percy, *Chicago.*
LL.B., Harvard University.
Granger, Joseph I., *Bourbonnais.*
A.B., A.M., St. Viateur's College.
Herbert, Lloyd, *Chicago.*
LL.B., Chicago-Kent College of Law.
Hollock, Roland Martin, *Chicago.*
Honneger, Peter, *Chicago.*
LL.B., Northwestern University.
Manzy, Amon, *Chicago.*
LL.B., Northwestern University.
MacChesney, Nathan William, *Chicago.*
LL.B., University of Michigan.

McClure, Robert Samuel, *Chicago.*
A.B., University of Chicago; LL.B., Northwestern University.

Ortseifen, George, *Chicago.*

Raftree, William, *Chicago.*
LL.B., Chicago-Kent College of Law.

Rice, Cyrus W., *River Forest.*

Riley, Henry, *Chicago.*

Shervey, Charles O., *Chicago.*

Smith, Claude W., *Danville.*

Topliff, Samuel, *Evanston.*
A.B., Bowdoin College; LL.B., Northweslern University.

Tyrrell, Pierce Crawford, *Elgin.*
LL.B., Northwestern University.

Weeks, Harvey Thomas, *Chicago.*
A.B., Yale University.

Wilson, Edward F., *Chicago.*
B. of M. E., University of Michigan.

Wise, Alorn Walker *Chicago.*

Wise, Everett L., *Chicago.*
A.B., LL.B., Harvard University.

Yomaguchi, Shun, *Yokohama, Japan.*

Vlacklos, Andrew John, *Tripolis, Greece.*
LL.B., University of Greece.

Young, Randall Boyer, *Red Oak, Ia.*

THE SCHOOL OF PHARMACY.

SENIORS REGISTERED IN COURSE FOR THE DEGREE OF PHARMACEUTICAL CHEMIST.

Andrews, James Porter,	*Garrett, Ind.*
De Vine, Owen Crippen,	*Marietta, O.*
Douglas, Gerald Robert,	*Menno, S. D.*
Erickson, Hjalmar Emil,	*Chicago.*
Farrar, Samuel McFarland,	*Austin Sta., Chicago.*
Fredrickson, Walter Ennis,	*Ottumwa, Ia.*
Girton, Lee Richmond,	*Madison, S. D.*
Green, Carl Victor, Ph.G.,	*Chicago.*
Jeffers, Mrs. Christine,	*Bellevue, Ia.*
Johnson, Leonard Alfred,	
Kohn, Arthur Frederick,	*Chicago.*
Kovarik, Victor Godfried,	*Chicago.*
McClain, Harry Walker,	*Tripp, S. D.*
Malone, John William,	*Chicago.*
Michael, Edward,	*Chicago.*
Milne, George Edmund,	*Morrison.*
Moore, William A.,	*Danville.*
Neely, John Wooford,	*Chicago.*
Pringle, Miss Madge Isabelle,	*Marengo.*
Reed, Paul Cresse,	*Chicago.*
Rinde, Samuel Nelson,	*Grafton, N. D.*
Seck, Ernest August,	*Evansville, Ind.*
Schimerer, Gustav,	*Chicago.*
Sharpe, Howard Addison,	*Racine, Wis.*
Sheppard, Samuel Henry, Ph.G.,	*Mt. Pleasant, Ia.*
Smith, Miss Mary Eva,	*Savanna.*
Spaetgens, Henry Charles,	*Chicago.*
Spear, Benjamin,	*Chicago.*
Stacy, Edward Everett,	*Tuscola.*
Stahl, Miss Amanda Wilhelmina,	*Chicago.*
Suddoth, Marion Aristides,	*Friars Point, Mass.*
Vick, Samuel Snyder,	*Carterville.*
Watkins, Leroy Anthony,	*Waterloo, Ia.*

COURSE FOR THE DEGREE OF GRADUATE IN PHARMACY.

SENIORS.

Anding, Claude Ellis,	*Summit, Miss.*
Andrews, James Porter,	*Garrett, Ind.*
Arnold, Thomas Earle,	*Hastings, Neb.*
Atterbery, Carlin,	*Chandlerville.*
Baillie, James William, Sc.B.,	*Effingham.*
Baltzer, Robert Herman,	*Hickman, Ky.*
Bellows, Frederick Eugene,	*Waukegan.*
Boring, Eli W.,	*Salem.*
Brown, Samuel William,	*Ringwood.*
Buesch, Andrew Ernest,	*Dubuque, Ia.*
Butler, Guy,	*Cambridge, Neb.*
Childs, Frank Samuel,	*Keithsburg.*
Cline, John Vick,	*Marion.*
Comer, Thomas John,	*Mauston, Wis.*
Cooley, Albert Simon,	*Savanna.*
Cunningham, William Archibald,	*Marion, Ala.*
Dean, Fred Julius,	*Waterman.*
De Vine, Owen Crippen,	*Marietta, O.*
Douglas, Gerald Robert,	*Menno, S. D.*
Dunne, Frank Joe,	*Peoria.*
Elliott, Robert,	*Washington.*
Erickson, Hjalmar Emil,	*Chicago.*
Farrar, Samuel McFarland,	*Austin Sta., Chicago.*
Felts, Harry B.,	*Barron, Wis.*
Fettgather, Joseph J.,	*Dubuque, Ia.*
Fleischer, Andrew William,	*Ossian, Ia.*
Frantz, George Alton,	*Miller Station, Pa.*
Frederickson, Walter Ennis,	*Ottumwa, Ia.*
Geiger, Benedict Sebastian,	*El Paso.*
Gessner, Thomas,	*Springfield.*
Gilbertson, Roy,	*Decorah, Ia.*
Girton, Lee Richmond,	*Madison, S. D.*
Hammett, Charles Alfred,	*Portchester, N. Y.*
Hartman, John Henry,	*Freeport.*
Hill, David Wesley,	*Libertyville, Ia.*
Hirsh, Albert,	*Pueblo, Colo.*
Jaeger, Louis,	*Madison, Wis.*
Jeffers, Mrs. Christine,	*Bellevue, Ia.*
Keir, Archie Steward	*Viroqua, Ia.*
Kneevers, Harry,	*Sheboygan, Wis.*

Kohn, Arthur Frederick,	*Chicago.*
Kovarik, Victor Godfried,	*Chicago.*
Lamborn, Walter Alexis,	*Griswold, Ia.*
Lamm, Leo,	*Spring Valley, Minn.*
Large, William Earle,	*Springfield.*
Lien, Fred,	*Hillsboro, N. D.*
Locke, Burt Tuthill,	*Freeport.*
Loukota, James Albert,	*Schuyler, Neb.*
McClain, Harry Walker,	*Tripp, S. D.*
McCleery, Daniel Ray,	*Pawnee City, Neb.*
Malone, John William,	*Chicago.*
Martin, Samuel Vincent,	*Bancroft, Neb.*
Megaw, Herschel,	*Owaneco.*
Michael, Edward,	*Chicago.*
Milne, George Edmund,	*Morrison.*
Moore, William A.,	*Danville.*
Mynard, Warren A.,	*Amboy.*
Neely, John Wooford,	*Chicago.*
Nywall, David Alfred, Sc.B.,	*Chicago.*
Obenland, Adolph Emil,	*Pomeroy, Wash.*
Pringle, Madge Isabelle,	*Marengo.*
Rachac, Louis Adolph Louis,	*Cummings, N. D.*
Reed, Paul Cresse,	*Chicago.*
Reinholdt, August John,	*Manning, Ia.*
Rinde, Samuel Nelson,	*Grafton, N. D.*
Seck, Ernest August,	*Evansville, Ind.*
Schmierer, Gustav,	*Scotland, S. D.*
Sharpe, Howard Addison,	*Racine, Wis.*
Simpson, William Edward,	*Pleasant Plains.*
Smith, Eva Mary,	*Savanna.*
Spear, Benjamin,	*Chicago.*
Stacy, Edward Everett,	*Tuscola.*
Stahl, Amanda Wilhelmina,	*Chicago.*
Steele, Claude Seymour,	*Kentland, Ind.*
Suddoth, Marion Aristides,	*Friars Point, Mass.*
Swanson, Carl Harry,	*Clarinda, Ia.*
Tank, Julius,	*Manning, Ia.*
Turner, John Arthur,	*Antioch.*
Vick, Samuel Snyder,	*Carterville.*
Vincent, Roland E.,	*Letts, Ia.*
Walker, Charles Earl,	*Quincy.*
Watkins, Leroy Anthony,	*Waterloo, Ia.*
Wertz, Oscar Spencer,	*Sterling.*
Whitby, Clement Marsh,	*Dubuque, Ia.*

COURSE FOR THE DEGREE OF GRADUATE IN PHARMACY.

JUNIORS.

Alt, Leo Nicholas,	*Chicago.*
Anderson, Charlie John,	*Valley City, N. D.*
Bates, Roy Edward,	*Cerro Gordo, Ia.*
Bayer, Herman,	*Guelph, Ont.*
Bellows, Fred Eugene,	*Waukegan.*
Benedict, Vincent,	*Grand Rapids, Mich.*
Benson, Charles Adolph,	*DeKalb.*
Blettner, Arthur Williams,	*Chicago.*
Bowman, C. E.,	*Chicago.*
Burt, Hugh Valentine,	*Chicago.*
Burton, Oscar,	*Falmouth.*
Carroll, Edward,	*Chicago.*
Chapman, Benjamin Craven,	*Mattoon.*
Chawgo, Harry Eugene,	*Dundee.*
Cissell, Orville B.,	*Toulon.*
Clothier, Charles Roland,	*Polo.*
Cooper, Harry Talbot,	*Robinson.*
Courtright, Elmer,	*Somonauk.*
Cowan, John G.,	*Milford.*
Coyner, Fred Garfield,	*Rockford.*
Davies, John Edward,	*Spring Green, Wis.*
Dubski, Frank,	*Chicago.*
Fagan, Claudia,	*Englewood, S. D.*
Flemming, Edward William,	*Laramie, Wyo.*
Frutiger, Jacob,	*Olney.*
Fullerton, James Thomas,	*Chicago.*
Good, Leonard Franklin,	*Salem, S. D.*
Goodrich, D. W.,	*Claremont, Minn.*
Gregg, Arthur William,	*Bloomington.*
Greenwell, Elmer LeRoy,	*Farmington.*
Grinnolds, Emma Maude,	*Mauston, Wis.*
Gross, Bolmmil John,	*Chicago.*
Hallahan, Arthur Thomas,	*Baraboo, Wis.*
Hallam, Percy Charles,	*Shabbona.*
Hallock, Frank William,	*Paw Paw.*
Harrison, William Henry,	*Danville.*
Hartig, Albert Julius,	*Dubuque, Ia.*
Hassett, Frank Martin,	*Clinton, Ia.*
Heaton, Ruby Franklin,	*Scircleville, Ind.*
Hendrickson, Berent,	*Portland, N. D.*

Hennings, Raleigh Myrtus,	*Albert Lea, Minn.*
Hermanek, Frank,	*Chicago.*
Hieber, William Andrew Nicholas,	*Chicago.*
Hofferkamp, Charles,	*Springfield.*
Hohlen, Siegfried,	*Minonk.*
Holke, William Henry,	*Freeport.*
Holliday, William Warren,	*Wentworth, S. D.*
Hood, Frank Daugherty,	*Streator.*
Huelshoff, Frank Bernard,	*Dubuque, Ia.*
Jewett, Dick,	*Waverly, Neb.*
Johnson, August Edward,	*Monmouth.*
Johnson, Louis Winslow,	*Taylorville.*
Johnson, John Carl,	*Red Wing, Minn.*
Jones, Harper Patterson,	*Marshall, Tex.*
Kassell, A. C.,	*Jacksonville.*
Keesecker, Frank Charles,	*Dubuque, Ia.*
Kelly, Marcella Geneva,	*Dixon.*
Kerwin, J. J.,	*Chicago.*
Klinck, Clifford LeMoyne,	*Bristow, Ia.*
Kolar, Gustav Stanley,	*Chicago.*
Kouba, Joseph F.,	*Chicago.*
Kozlowski, Benjamin Roman,	*Chicago.*
Kuehn, William,	*Chicago.*
Libby, Thomas Leroy,	*Waterloo, Ia.*
Lidell, Fuller,	*Chicago.*
Macomber, Arthur Gilbert,	*Cascade, Ia.*
Magoun, Walter Calvin,	*Sioux City, Ia.*
Margadant, William,	*Waterloo, Ia.*
McColl, Edward Roy,	*Gresham, Ore.*
Merz, Lee Nichols,	*Chicago.*
Metzger, Harry Clyde,	*Cairo.*
Miller, James Emerson,	*Atlantic, Ia.*
Milne, Frank Alexander,	*Du Quoin.*
Moyer, J. Walter,	*Crawford, Neb.*
Neill, Frederick Winthrop,	*Chandlerville.*
Nolan, John Peter,	*Chicago.*
O'Connor, Mary,	*Ionia, Mich.*
Patton, Frederick Wills,	*Waupun, Wis.*
Pepin, Louis Arthur,	*Grand Rapids, Mich.*
Pendergrast, John Brittan.	*Hogansville, Ga.*
Penner, Wilhelm Heinrich Hermann,	*Beatrice, Neb.*
Prickett, Charles Caleb,	*Lewistown.*
Potter, Maynard H.,	*Piggott, Ark.*
Read, Edgar Newton,	*Urbana.*

Richards, Albert John,	*Springfield.*
Ritter, Frank,	*Mattoon.*
Roland, Ingwald Burnhardt,	*Menominee, Wis.*
Ross, J. Leonard,	*Clinton, Ia.*
Schillinger, Carl August,	*Rock Island.*
Sharringhausen, George Lakey,	*Des Plaines.*
Sheeran, Frank Clement,	*Faribault, Minn.*
Shennum, Arthur Clarence,	*Chicago.*
Schults, Albert Lester,	*Plano.*
Smith, Alfred Carlisle,	*Hampshire.*
Spealman, H. L.,	*Chadwick.*
Spear, Edward,	*Chicago.*
Stach, Charles Albert,	*Chicago.*
Starrett, Roy Samuel,	*Manito.*
Stebbins, Arthur Percy,	*Barron, Wis.*
Stepps, Victor Albert,	*Chicago.*
Sublett, Harold Watson,	*Bowling Green, Ky.*
Summers, Verne C.,	*Hammond, Ind.*
Swan, James Hobart,	*Libertyville.*
Tannus, Shukri Faris,	*Chicago.*
Thiedohr, Walter,	*Streator.*
Todd, Hobart H.,	*Chicago.*
Tompkins, Samuel Hershey,	*New Berlin.*
Turner, Jesse Blaine,	*Santa Ana, Cal.*
Upton, George Washington,	*Chicago.*
Von De Bogart, Bert Ralph,	*Lake Geneva, Wis.*
VanDyke, Louis Henry,	*Eureka.*
Vlcek, Charles,	*Chicago.*
Waddell, Edward Lee,	*Chicago.*
Wangler, Antone Lotharius,	*Waterloo, Ia.*
Wellbrook, William,	*Peoria.*
Wetzel, William,	*Waukegan.*
Wheeler, Clifton Damon,	*Belvidere.*
Wilson, Clarence Robert,	*Normal.*
Wise, Richard Kyle,	*Chicago.*
Wray, Frank Pierce,	*Pella, Ia.*
Wylie, Tracy John,	*Tampico.*

THE DENTAL SCHOOL.

SENIOR CLASS.

Ackert, Charles Barton,	*Iowa.*
Addison, Earl Stanley,	*South Dakota.*
Bacon, Lee Ashley,	*Illinois.*
Bailey, Wallace Nelson,	*Wisconsin.*
Baker, Charles Reeder,	*Illinois.*
Baker, John Ellsworth,	*Wisconsin.*
Baldridge, Joseph Simian,	*Washington.*
Bane, Raymond Waldo,	*Illinois.*
Barber, Edward Sutherland,	*South Dakota.*
Bayless, Dudley Dean,	*Indiana.*
Beaumont, Gulie Alexander,	*Texas.*
Becker, Sebastian,	*Illinois.*
Belknap, Henry Wales,	*Illinois.*
Bergbom, George Nathaniel,	*Illinois.*
Blackmore, Earl James,	*Michigan.*
Blaisdell, Edward Ward,	*Minnesota.*
Blake, William Earl,	*Oregon.*
Bliss, Louis Lamonte,	*Illinois.*
Bogart, Mark David,	*Oregon.*
Bridgman, Edward Payson,	*Wisconsin.*
Brooks, William Wyart,	*Tennessee.*
Brown, Charles Frederick,	*Iowa.*
Brown, Roy Lawrence,	*Iowa.*
Brunner, Albert Henry,	*Iowa.*
Burbank, Glen Canary,	*California.*
Burke, Gordon Leigh,	*Kentucky.*
Burnett, Ira Ainsworth,	*Ohio.*
Calvert, Alvah Wort,	*Indiana.*
Carlene, Mrs. Helfrid O.,	*Sweden.*
Carroll, John Francis,	*New York.*
Cave, Harrison Baskett,	*Texas.*
Christie, Herbert Franklin,	*Canada.*
Church, Truman Tracy,	*South Dakota.*
Churchill, Lester Frank,	*Illinois.*
Clemmer, John J.,	*Iowa.*

Cline, Caryll Eugene,	*Missouri.*
Colbert, Wallace Bruce,	*Mississippi.*
Conover, James Furman,	*Illinois.*
Courtice, Andrew John,	*Canada.*
Cox, William Adam,	*Nebraska.*
Craig, William Pollack,	*Pennsylvania.*
Crane, Edwin A.,	*Illinois.*
Crose, Reuben Brooks,	*Iowa.*
Currer, George Robert,	*Iowa.*
Dalbey, Will Curtis,	*Michigan.*
Dauterive, Albert Joseph,	*Louisiana.*
DeGroff, Paul Burritt,	*Illinois.*
Dewey, Herbert Chester,	*Illinois.*
Dodge, Morton Stanley,	*Wisconsin.*
Dodge, Wilbert Jacob,	*Minnesota.*
Douglas, Arthur Farrington,	*Nebraska.*
Easton, William Thomas,	*Michigan.*
Edgar, William Murray,	*Illinois.*
Ehrenhaus, Richard Adolph O.,	*Germany.*
Emerson, Herbert D.,	*New York.*
Fairfield, George Morton,	*Indiana.*
Fisher, Ambrose Terry,	*Michigan.*
Forrest, Miss Elvira,	*Indiana.*
Fowler, Orvel S.,	*Oregon.*
Fox, George Thomas,	*Illinois.*
Gardner, Forrest Lee,	*Iowa.*
Gardner, Joseph Archibald,	*Tennessee.*
Gottlieb, David Hart,	*Oregon.*
Greeley, Harold Wilcox,	*Illinois.*
Gregg, Edwin Stanton,	*Illinois.*
Grinde, Seward Clarence,	*Wisconsin.*
Grove, George Carlton,	*Illinois.*
Hagerty, Robert E.,	*Iowa.*
Haigh, George E.,	*Illinois.*
Hamilton, Dillon,	*Kansas.*
Harder, Louis Frank,	*Wisconsin.*
Hart, Charles Simpson,	*Illinois.*
Hayden, Miss Gillette, D.D.S.,	*Ohio.*
Hegge, Edward Nelson,	*Wisconsin.*
Heller, Matthew,	*Illinois.*
Heymar, Alfred,	*Poland.*
Hilbert, John Carton,	*Wisconsin.*
Hoffer, Frederic Crider,	*Ohio.*
Hogan, Thomas Jefferson,	*New York.*

Hogan, William Edward,	*Illinois.*
Holmin, Oscar Serenus,	*Illinois.*
Hopper, Charles,	*Illinois.*
Huber, Charles Robert,	*Iowa.*
Huff, Robert E.,	*Michigan.*
Hughes, Herbert Schluter,	*Tennessee.*
Hutchinson, Floyd Milton,	*Iowa.*
Hutchinson, Leo Simplicious,	*Iowa.*
Ingersoll, Francis Byron,	*Indiana.*
Jackson, George Raymond,	*Illinois.*
Janes, Charles Alonzo,	*Washington.*
Jenkins, Elbert Clyde,	*Iowa.*
Jordan, Harry Ernest,	*Kansas.*
Jordan, Vane Alton,	*Washington.*
Kern, Max S.,	*Wisconsin.*
Kessler, Warren J.,	*Indiana.*
Kettles, F.,	*Illinois.*
Kinner, Major Ransom,	*Iowa.*
Knapp, Le Roy Allen,	*Illinois.*
Kruchevsky, Samuel S.,	*Illinois.*
Laffitte, Herman James,	*Wisconsin.*
Lampe, Carl,	*South Dakota.*
Land, John Adolph Albrecht,	*Germany.*
Lawrence, Ivy Garfield,	*Illinois.*
Linaker, George Henry,	*Scotland.*
Lind, Adam,	*Illinois.*
Link, John J.,	*Iowa.*
Looze, John Baptist,	*Wisconsin.*
McAvoy, Robert Chris,	*Canada.*
McCollum, Oliver Carrol,	*Kentucky.*
McLaughlin, Frank James,	*Iowa.*
McNinch, Joseph Scott,	*Indiana.*
Magee, Cecil James Hamilton,	*Canada.*
Mailer, Harry Orlando,	*Minnesota.*
Marks, David Graham,	*England.*
Mathias, J. Clyde,	*Iowa.*
Mau, Otto Frederick,	*Illinois.*
Maxwell, Roscoe C.,	*Kansas.*
Melde, Martin Thompson,	*Norway.*
Milbyer, Irving A. J.,	*New York.*
Miller, George Roscoe,	*Iowa.*
Miller, James Madison,	*Michigan.*
Miller, Julius John,	*Iowa.*
Miller, Robert Tatham,	*Illinois.*

Mitchell, William Arthur,	*Illinois.*
Moore, Dwight Edwin,	*Wisconsin.*
Morris, Cyril,	*Australia.*
Morton, Perry James,	*Nebraska.*
Mullen, George Martin,	*Nebraska.*
Mullen, Joseph Henry,	*Oklahoma.*
Mullen, William Henry,	*Nebraska.*
Mullins, William L.,	*Iowa.*
Murphy, Lloyd Lawrence,	*Minnesota.*
Murray, John B.,	*Iowa.*
Nelson, John,	*Illinois.*
Nevil, Thomas Odale,	*Tennessee.*
Norman, Mrs. Sarah C.,	*Illinois.*
Normoyle, Dennis James,	*Illinois.*
O'Connell, John Joseph,	*Illinois.*
Olson, Aaron Miles,	*Illinois.*
Packard, Gerald Jay,	*Nebraska.*
Packson, Ernest Shear,	*Kansas.*
Pardee, Silas Birdsall,	*California.*
Patton, Murray Albert,	*California.*
Paulsen, Herman Henry,	*Illinois.*
Peters, William August,	*Illinois.*
Peterson, Arthur Clark,	*Iowa.*
Phillips, Jesse W.,	*Minnesota.*
Phillips, Warren Byron,	*Minnesota.*
Pichler, Johann, M.D.,	*Austria.*
Pierce, Loren George,	*Iowa.*
Reible, George A.,	*Wisconsin.*
Reilly, John,	*Iowa.*
Richter, Jay J.,	*Minnesota.*
Roberts, Rufus John,	*Illinois.*
Robertson, Arthur Hayes,	*Wisconsin.*
Robichaux, Louis Frederic,	*Texas.*
Ross, Allie Glenn,	*Illinois.*
Ross, Herbert,	*Canada.*
Rothlisberger, George Bruce,	*Minnesota.*
Runner, Charles Frederick,	*Illinois.*
Salisbury, Fred Garfield,	*Iowa.*
Salisbury, William James,	*Illinois.*
Sanberg, Frank Eber,	*Minnesota.*
Sauer, Andrew William,	*Iowa.*
Sawyer, Emerson Robert,	*Canada.*
Schmidt, Oscar Charles,	*Iowa.*
Schulz, Otto Henry,	*Illinois.*

Seymour, Charles Herbert,	*Indiana.*
Shields, Guy James,	*Wisconsin.*
Shipstead, Henry S.,	*Minnesota.*
Sloan, Frank Twiss,	*Iowa.*
Smith, Austin Ora,	*Illinois.*
Smith, Charles Edward,	*Illinois.*
Smith, Harry R.,	*Indiana.*
Smith, Perry Lee,	*Illinois.*
Spires, Louis Edward,	*Ohio.*
Stephens, John Murray,	*Illinois.*
Stewart, Mose Elsworth,	*Illinois.*
Sweeney, Charles Augustus,	*Iowa.*
Teasdale, Ernest Robert,	*Canada.*
Thayer, William John,	*Illinois.*
Theile, Alvin A.,	*Iowa.*
Thompson, Charles Henry,	*North Dakota.*
Thurman, Robert Benjamin,	*Tennessee.*
Trompen, Andrew Nichols,	*Illinois.*
Waddell, James Clark,	*Illinois.*
Wagoner, John Benjamin,	*Illinois.*
Welker, John J.,	*Ohio.*
Welsh, Isabella B.,	*Iowa.*
Welsh, Stanley Carpenter,	*Wisconsin.*
Wenner, Alvah Leroy,	*Illinois.*
Wick, Will Walter,	*Illinois.*
Wolkow, Henry E.,	*Wisconsin.*
Woolson, Albert H.,	*Minnesota.*
Yeamans, Edwin Glenway,	*South Dakota.*
Yerke, Frank James,	*Illinois.*
Young, Gerhart H.,	*Wisconsin.*

SPECIAL.

Shedd, Dr. John W.,	*Illinois.*

JUNIOR CLASS.

Abbott, Miss Florence Ethel,	*Michigan.*
Abernath, Thomas DeWitt,	*Iowa.*
Arnold, Elisha Melvin,	*Illinois.*
Bachmann, Albert John Andrew,	*Illinois.*
Bartsch, Frederick George,	*Illinois.*
Bay, George Phillip,	*Illinois.*
Beart, Leslie Fosbrook Charles,	*Illinois.*
Beckett, John Marcus,	*Oklahoma.*
Beechler, Dale Xenophon,	*Indiana.*

Bell, Charles Marion,	*Illinois.*
Best, Walter Thomas,	*Illinois.*
Bohrer, John David,	*Missouri.*
Branstad, Henry Oswald,	*Wisconsin.*
Brennan, James Clarence,	*South Dakota.*
Brosnihan, Fred Hugh,	*Illinois.*
Carlton, Robert Emmett,	*Illinois.*
Cecka, Joseph B.,	*North Dakota.*
Chandler, Kdward Teneyck,	*Illinois.*
Chandler, Frank Wadsworth,	*Minnesota.*
Chapline, William Edward,	*Illinois.*
Clark, Henry Bannister,	*South Dakota.*
Clark, Irving Alfred,	*Michigan.*
Coffman, Ansel Victor,	*Illinois.*
Collins, Joseph H.,	*Illinois.*
Creeden, Timothy J.,	*Wisconsin.*
Cunningham, Clarence Elmore,	*Wisconsin.*
Currier, Guy Raymond,	*Minnesota.*
Davis, Guilford Banning,	*Oklahoma.*
Dearborn, Helen Towle,	*Iowa.*
Denning, Roy Joseph,	*Michigan.*
Devlin, William,	*North Dakota.*
DuBois, Leon Leroy,	*Iowa.*
Dyblie, John Helmer,	*Illinois.*
Emerson, Charles Milton,	*Illinois.*
Fansett, Fred,	*North Dakota.*
Ford, John Alexander McLean,	*Canada.*
Freyer, Mrs. Hedwig,	*Illinois.*
Galbreath, Merit E.,	*Michigan.*
Gale, Frank Willis,	*Illinois.*
Gale, Mell Edwin,	*Nebraska.*
Garrett, Edgar Raymond,	*Wisconsin.*
Gaus, Julius John,	*Illinois.*
Goggin, John William,	*Wisconsin.*
Gouse, Marcus Wesley,	*Illinois.*
Gray, William Joseph,	*Illinois.*
Grayston, Hayden B.,	*Illinois.*
Greenwood, Alexander Samuel,	*Illinois.*
Guest, Henry Quincy,	*Illinois.*
Hagerup, Myron Francis,	*Wisconsin.*
Hamilton, Baker Aaron,	*Canada.*
Harris, Bert Alfred,	*Illinois.*
Harsch, Benjamin Theodore,	*Illinois.*
Haviland, Holmes Weston,	*Kansas.*

Heck, Eli George,	*Illinois.*
Heidel, Franklin Edward,	*Minnesota.*
Heese, John Lewis,	*Iowa.*
Hoag, Arthur Edwin,	*Wisconsin.*
Hooey, Leslie Ernest Arthur,	*Canada.*
Hopper, Archie B.,	*Nebraska.*
Horn, Clarence M.,	*Illinois.*
Hospers, John Henry, A.B.,	*Iowa.*
House, E. B.,	*Canada.*
Huff, Ralph Thomas,	*Illinois.*
Humphrey, John Holman,	*Illinois.*
Hurd, Hugh Chester,	*Michigan.*
Igney, Oscar Cornelius,	*Illinois.*
Johnson, Albert Nellon,	*Wisconsin.*
Johnson, Harry Milton,	*Illinois.*
Jones, Roger Theodore,	*Wisconsin.*
Juul, Axel,	*Minnesota.*
Kelly, John Joseph,	*Illinois.*
Kremer, Louis Gilfillen,	*Nebraska.*
Laign, Edward Arthur,	*Illinois.*
Lamm, Phil T.,	*Missouri.*
Laughlin, James Rowland,	*Indiana.*
Leavitt, Mrs. May B.,	*Illinois.*
Lietzman, Charles Harmon,	*Illinois.*
Loofboro, Erlow Bliss,	*Iowa.*
Loomis, Edgerton Fay,	*Iowa.*
Low, Roy James,	*Illinois.*
Ludwig, Leon E.,	*Illinois.*
McClenahan, Frank Clifton,	*Illinois.*
McCowen, Eugene Percival,	*Illinois.*
McCumber, Clyde Isaiah,	*Illinois.*
McGaw, Andrew Ernest,	*North Dakota.*
McIntyre, James McAdam,	*Canada.*
McKnight, Robert Franklin,	*Illinois.*
McQuillen, Edward,	*Iowa.*
Macdonald, Norman Arthur,	*Illinois.*
Madison, George Addison,	*Minnesota.*
Malcolm, John L.,	*Canada.*
Malnight, Clyde Lyn,	*Michigan.*
Marr, Glenn DeMotte,	*Indiana.*
Mathews, John Lewis,	*Wisconsin.*
Miller, Jennie Louise,	*Kansas.*
Miller, Orlen Jacob,	*Wisconsin.*
Mittan, Wesley Clarence,	*Washington.*

Moe, William James,	*Wisconsin.*
Mohan, Joseph Conness,	*Iowa.*
Monteith, E. Belford,	*Iowa.*
Moreau, Joseph Henry,	*Wisconsin.*
Murray, Benjamin Alder,	*Canada.*
Olsen, Frederick A. H.,	*Illinois.*
Ostrander, Bunyan W.,	*Michigan.*
Parker, John Walter,	*Texas.*
Perry, Charles Elfred,	*Wisconsin.*
Phelps, Edgar Burns,	*California.*
Pierce, James Samuel,	*Nebraska.*
Porter, Mrs. Helen Kerns,	*Arkansas.*
Pottle, Lovejoy,	*Illinois.*
Printz, Merle Mayo,	*Illinois.*
Prouty, Edward,	*Wisconsin.*
Rand, Thomas,	*Minnesota.*
Rassmussen, Alfred Theodore,	*Wisconsin.*
Richardson, Robert George,	*North Dakota.*
Rimmer, Walter Harcourt,	*Illinois.*
Robinson, William Joseph,	*Iowa.*
Rossteuscher, Edwin Ralph,	*South Dakota.*
Samson, William Roy,	*Iowa.*
Sauer, Raymond Julius,	*Iowa.*
Saunders, Howard Bond, L.B.,	*Wisconsin.*
Schmuck, Emil Albert,	*Minnesota.*
Schofield, Herbert Shaw,	*Illinois.*
Scholler, Daniel,	*Indiana.*
Schroeder, Miss Maria M.,	*Germany.*
Schroeder, Oscar R.,	*Wisconsin.*
Schuler, Arthur Edward,	*Indiana.*
Schwartz, Bernhardt Frederick,	*Iowa.*
Selleck, Charles Herbert,	*Illinois.*
Shirk, Benjamin Bairc,	*Iowa.*
Slick, Albert Benjamin, B.S.,	*Illinois.*
Sluss, Frank LeRoy,	*Illinois.*
Smith, Edgar Wilson,	*Kansas.*
Smith, James Perrie,	*Indiana.*
Stalland, Martin Christian,	*Minnesota.*
Swartout, Benjamin,	*Minnesota.*
Teskey, Edward Luke,	*Michigan.*
Thompson, George Patterson,	*Canada.*
Thorp, James William,	*Illinois.*
Thorson, William Julius,	*Nebraska.*
Tilden Morton Cranage,	*Illinois.*

Timmins, Eldredge Dufferin,	*North Dakota.*
Trerise, Walter E.,	*Montana.*
True, Harry Albert,	*Iowa.*
Unger, Ross Clayton,	*Ohio.*
VanDeusen, Harry Moorehouse,	*Illinois.*
VanSant, Ralph Newton,	*Illinois.*
VanTuyl, Dr. Harry Isaac,	*Illinois.*
Walker, Willie C.,	*Illinois.*
Watson, Meredith,	*South Dakota.*
Werner, Frederick Harold,	*Indiana.*
Wetterer, Frederick Jacob,	*Illinois.*
Wharton, William F. Roscoe,	*South Dakota.*
Whitney, Glenn Benard,	*Michigan.*
Wiese, Charles Arthur,	*Iowa.*
Williams, Hugh Richard,	*Wisconsin.*
Willson, Clarke M.,	*Minnesota.*
Wilson, William K.,	*Michigan.*
Wise, Harry A.,	*Michigan.*
Wiswall, Willard Jason,	*Illinois.*
Wood, Bertram Guy,	*Illinois.*
Wood, John Adam,	*North Dakota.*
Woodward, Oscar Hale,	*Illinois.*

SPECIAL.

Hammat, Charles Russell,	*Missouri.*

FRESHMAN CLASS.

Adamson, John August,	*Minnesota.*
Amoit, George B.,	*Massachusetts.*
Babst, George Henry,	*Illinois.*
Bachman, Clifton H.,	*Michigan.*
Baikie, Ellis Jay,	*Illinois.*
Beardslee, J. Willis,	*Illinois.*
Belden, Dorr C.,	*Colorado.*
Bible, Walter Lee,	*Wisconsin.*
Blass, Edwin John,	*Wisconsin.*
Blome, Albert Herman Adam,	*Illinois.*
Bowe, John Hamilton,	*Illinois.*
Bower, LeRoy,	*Nebraska.*
Boyington, Charles Barker,	*Illinois.*
Bristow, Roscoe,	*Illinois.*
Bronstein, Benjamin Joseph,	*Wisconsin.*
Brown, Hilles Tally,	*Illinois.*

Brown, Leonard Granville,	*Ohio.*
Brown, Thomas Wilson,	*Illinois.*
Burns, Frank Donald,	*Iowa.*
Carrington, Walter Rainey,	*Texas.*
Chadwick, Claude Cecil,	*Canada.*
Chimberg, Harry Sigfrid,	*Minnesota.*
Christianson, John Fred,	*Utah.*
Clark, Howard Jackson,	*Missouri.*
Clendenen, Robert R.,	*Illinois.*
Colby, Winfield Horace,	*Michigan.*
Conklin, Bishop Albert,	*Illinois.*
Corey, Mrs. Alice,	*Kansas.*
Crawford, William Nathan,	*Washington.*
Crume, Everett Lodowich,	*Michigan.*
Curran, John James,	*Iowa.*
Cuykendall, Charles Elias,	*Iowa.*
Danek, David Hill,	*Illinois.*
Day, Mrs. Eva May Frances,	*Illinois.*
Dietz, Oscar,	*Wisconsin.*
Diffenbacher, Ernest John,	*Illinois.*
Dillingham, Roy Vance,	*Michigan.*
Dobson, Fred Albert,	*Illinois.*
Donovan, John Joseph,	*South Dakota.*
Downey, Joseph Murray,	*Illinois.*
DuChaine, Warren Newton,	*Iowa.*
Eastman, Loren Starke,	*Washington.*
Ellis, Carson E.,	*Washington.*
Fay, Herbert Macon,	*Illinois.*
Fellman, Albert Frederick,	*Illinois.*
Fiddyment, Edward James,	*Illinois.*
Fietsch, Herman,	*Illinois.*
Fox, Thomas, Wesley,	*Missouri.*
Fox, Willard Harry,	*Illinois.*
Fritz, Fred S.,	*Michigan.*
Gatons, John Joseph,	*Illinois.*
Gibson, Will Warren,	*Michigan.*
Giles, Percy Osbourne,	*Illinois.*
Gilmore, Thomas Edward,	*Canada.*
Goeres, Max,	*Wisconsin.*
Gonsoulin, Silvio,	*Louisiana.*
Gowdy, H. LeRoy,	*Iowa.*
Grant, James Clinton,	*Illinois.*
Grove, Frank Wendell,	*South Dakota.*
Gurley, Frederick George,	*New York.*

Hamman, H. Herman,	*Michigan.*
Harper, Alfred James,	*Illinois.*
Hatterscheid, Hugo Carl,	*Iowa.*
Haury, Arthur Otto,	*Kansas.*
Heath, Fred Erwin,	*Michigan.*
Higley, Henry Franklin,	*California.*
Hinckley, Carl Asa,	*Michigan.*
Holmes, Harry Lowell,	*Iowa.*
Houston, Robert Edgar,	*Illinois.*
Hull, Warren Kendall,	*Indiana.*
Irwin, William Wallace,	*Canada.*
Jackson, Bertram,	*Canada.*
Jardon, Fred,	*Iowa.*
Jennings, Raleigh Arthur,	*Illinois.*
Jenson, Ole Jorgen,	*Washington.*
Johnson, Theodore,	*Illinois.*
Jones, Alfred Hannibal, Jr.,	*Illinois.*
Jones, Harry Bernard,	*Illinois.*
Jones, Harvey Vilette,	*Missouri.*
Kadel, Leroy L.,	*Illinois.*
Kagy, Joseph Rodney,	*Illinois.*
Kallander, David,	*Illinois.*
Kallner, Rebecca,	*Illinois.*
Kalman, Abraham,	*Illinois.*
Kane, William Thomas,	*Wisconsin.*
Kennedy, Angus Joseph,	*Canada.*
Kerch, Ivan Kent,	*Illinois.*
Knecht, Frederick Cassius,	*Illinois.*
Kurtz, Francis Edward,	*Illinois.*
Kuyper, Cornelius A.,	*Michigan.*
LaBounta, Forrest,	*Illinois.*
Lafount, Arthur Charles,	*Utah.*
Lambach, Hugo Charles,	*Iowa.*
Landon, Orrin F.,	*Indiana.*
Lane, Jesse Pitzer,	*Illinois.*
Larkin, William Francis,	*Illinois.*
Leckie, David Garnet,	*Canada.*
Lee, Gilbert O.,	*North Dakota.*
Leverton, Elmer R.,	*Indiana.*
Lobeck, William Henry,	*Minnesota.*
Lohnbakken, Olaf,	*Minnesota.*
Louderback, Andrew Vachel,	*Indiana.*
Lowe, John O.,	*Idaho.*
Lowry, Hallett Emmet,	*Michigan.*

Lubahn, William Frederick,	*Michigan.*
Luetscher, George Benjamin,	*Wisconsin.*
Lyle, Arthur G.,	*Michigan.*
McBean, Charles D.,	*Washington.*
McCann, George Christopher,	*Illinois.*
McCullock, Archibald Lewis,	*Minnesota.*
McDonald, Harry L.,	*South Dakota.*
McDonald, Philip F.,	*Illinois.*
McKechney, Daniel Herbert,	*North Dakota.*
Maas, Leonard Milton,	*Illinois.*
Mahaffy, William,	*Iowa.*
Malkin, Louis,	*Illinois.*
Manchester, Leroy B.,	*Washington.*
Mason, Clarence Lee,	*Indiana.*
Maxwell, George Henry,	*Illinois.*
Meacham, Norton Roy,	*Idaho.*
Meek, William Gardener,	*Michigan.*
Merritt, Milfred Isaac,	*Indiana.*
Miller, Agnes O'Byrne,	*Indiana.*
Miller, John,	*Wisconsin.*
Moore, Frank Asbury Beall,	*Illinois.*
Moore, Virgil,	*Illinois.*
Moore, William Garnet,	*Canada.*
Morey, Frank Huffer,	*Louisiana.*
Morris, William Edward,	*Illinois.*
Morrison, John Francis,	*Canada.*
Morse, Charles Lawrence,	*Indiana.*
Mylroie, William Garfield,	*Wisconsin.*
Nally, Enos Clifton,	*Missouri.*
Nelson, Arthur Glen,	*Illinois.*
Nelson, George Albins, Jr.,	*Illinois.*
Newcomb, Charles B.,	*Michigan.*
O'Hara, Matthew Martin,	*Illinois.*
Olafsson, Olaf,	*Illinois.*
Olson, William Andrew,	*Illinois.*
Omsberg, Charles S.,	*Wisconsin.*
Oppermann, Mrs. Anna Elizabeth,	*Germany.*
Organ, Burleigh H.,	*Illinois.*
Parks, James Frank,	*Tennessee.*
Patterson, Glenn Scott,	*Michigan.*
Percival, Frank Robert,	*Illinois.*
Peroutky, John Wenzel,	*Wisconsin.*
Phillips, Lee Albert,	*Minnesota.*
Plummer, Perry Haskell,	*South Dakota.*

Powers, Samual Birney,	*Wisconsin.*
Preusker, Alwin,	*Illinois.*
Prideaux, Oscar Charles,	*Wisconsin.*
Putz, William Edward,	*Wisconsin.*
Redmond, William Glenn,	*South Dakota.*
Reid, William Alexander,	*South Dakota.*
Renno, Henry John,	*Pennsylvania.*
Reynolds, Thomas Francis,	*Illinois.*
Rice, Thomas Lester,	*Illinois.*
Richards, Walter Harold,	*Iowa.*
Riley, Daniel Howard,	*Illinois.*
Riley, Harbin Septer,	*Illinois.*
Risinger, Ira Henry,	*Michigan.*
Robinson, Fred M.,	*Michigan.*
Rockfellow, John Albert,	*Washington.*
Sargent, William Enoch,	*South Dakota.*
Schnaidt, Edward J.,	*South Dakota.*
Searl, Charles Luther,	*Illinois.*
Sengpiel, William John,	*Wisconsin.*
Sherman, Leigh W.,	*Minnesota.*
Smith, Charles Edgar,	*Illinois.*
Smith, Harold Slayton,	*Iowa.*
Smith, Harry Oscar,	*Illinois.*
Somerville, David McCoil, W.,	*Canada.*
Sprague, Harry Albert,	*Michigan.*
Stenberg, Nels Ludwig,	*Michigan.*
Stenz, William Henry,	*Wisconsin.*
Stewart, William Curtis,	*Illinois.*
Stimson, Henry Symes,	*Minnesota.*
Stowell, Clayton Frank B,	*Michigan.*
Street, Charles Abraham,	*Australia.*
Sullivan, Clarence F.,	*Iowa.*
Taylor, George Wesley,	*Canada.*
Teitgen, August H.,	*Wisconsin.*
Tellman, Garrit H.,	*Michigan.*
Thomas, Rees Lewis,	*Minnesota.*
Thorsness, Gilbert Clemence,	*Wisconsin.*
Timmis, Joseph F.,	*Illinois.*
Traveller, Teel Dow,	*North Dakota.*
Trythall, John,	*South Dakota.*
Uglow, Clarence Malcolm,	*Canada.*
Unbehaun, Elmer C.,	*Iowa.*
Unland, Theodore Howard,	*Nebraska.*
Uttech, Otto Christian,	*Wisconsin.*

Vierson, Lee A.,	*Iowa.*
Walsh, Thomas John,	*Indiana.*
Washburn, Harvey Benson,	*Minnesota.*
Watson, Arthur William,	*Utah.*
Weaver Clarence Kinney,	*Iowa.*
Webster, Charles Joseph,	*Illinois.*
Weir, Robert Andrew,	*Canada.*
West, Frederick Victor,	*Manitoba.*
Whiting, Carl Edward,	*Minnesota.*
Wight, Holland E.,	*Utah.*
Wilson, John Thurman,	*Illinois.*
Wimmer, Wallace Alexander,	*Illinois.*
Woodworth, Charles R.	*Kansas.*
Wyman, Miss Mattie K.,	*Minnesota.*
Yackel, Edward Wilson,	*Wisconsin.*

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Allen, Mabe C.,	*Maryville, Mo.*
Allison, Georgia,	*Evanston.*
Anderson, Mrs. Jennie,	*Evanston.*
Anguish, Maude Darling,	*Evanston.*
Asher, Kate Lucille,	*Evanston.*
Atwood, Christine,	*Beloit, Kan.*
Ayres, Ethel,	*Ramsay.*
Babcock, Iola Ione,	*Clinton, Wis.*
Baker, Abram Laurel,	*Braceville.*
Barlow, Ina Mabel,	*Bethany, Mo.*
Barnlund, August William,	*Donovan.*
Baxter, Mrs. William G.,	*Winnetka.*
Beaton, Mary Gregory,	*Rogers Park.*
Beckett, Bessie,	*Blue Mound.*
Beckett, Mary Wakefield,	*West Chester, O.*
Beebe, Anna Lavina,	*Evanston.*
Beecher, Carl Milton,	*Lafayette.*
Berry, Ivy Belle,	*Savanna.*
Biddle, Jacob Adney,	*Middleton, Mich.*
Bisant, Claire Edna,	*Moline.*
Boag, Charles Wesley,	
Bozarth, Mary Amanda,	*Okmulgee, I. T.*
Briggs, Charles Alfred,	*Genoa.*
Brookings, Mrs. E. F.,	*Woodward, Ia.*
Brown, Arlo Ayres,	*Kewanee.*
Brown, Jessie Lois,	*Canton.*
Brown, Lillian Mabel,	*Evanston.*
Bucker, Emma Amelia,	*Clearmont, Mo.*
Bucker, William,	*Evanston.*
Burnard, Cuthbert,	*London, Eng.*
Burrell, Edith Mariam,	*Freeport.*
Callahan, Mrs. Bessie Christina,	*Evanston.*
Campbell, Hazel Barnes,	*Malvern, Ia.*
Carlin, George Wyle,	*Abingdon.*

Carr, Gertrude,	*Scuyler, Neb.*
Case, Charlotte Eunice,	*Cherry Valley.*
Chappell, Stella Aletta,	*Sioux Falls, S. D.*
Childs, Florence,	*Evanston.*
Chivington, Otis Leonidas,	*Wheeler, Ind.*
Christy, William Petrie,	*Evanston.*
Clark, Bessie Lee,	*Holden, Mo.*
Clerke, Charles Harold,	*Toronto, Ont.*
Colvin, Ernest Elmer,	*Wichita, Kan.*
Colladay, Jennie Frances,	*Hutchinson, Kan.*
Conaway, Jessie Florence,	*York, Neb.*
Congdon, Elizabeth,	*Evanston.*
Cook, Irene,	*Evanston.*
Cook, Olive,	*Evanston.*
Cooley, Lillian May,	*Evanston.*
Craig, Gem,	*North Judson, Ind.*
Curtis, Louise,	*Waverly, Ia.*
Dale, Margaret,	*Evanston.*
Dawes, Mrs. Rufus C.,	*Evanston.*
Dawson, Horace,	*Evanston.*
Dean, Edith Resor,	*Evanston.*
Dickinson, Rogerta,	*Eureka.*
Dildine, Harry Glen,	*Ionia, Mich.*
Dodge, Louis Norton,	*Evanston.*
Doland, Mae Louise,	*Rogers Park.*
Dunn, Mabel Adella,	*Evanston.*
Earhart, Grace,	*Evanston.*
Emmons, Clarence Hunt,	*St. Johns, Mich.*
English, Arthur Floyd,	*Evanston.*
English, Lela,	*Evanston.*
Fahs, Helen May,	*Seattle, Wash.*
Fallon, Lucy Hanenkamp,	*Edgewater.*
Fansler, Clara Daisy,	*Evanston.*
Fearis, John Sylvester,	*Ravenswood.*
Ferris, Mabel Vaughn,	*Berwyn.*
Fisher, Louis Willin,	*Boone, Ia.*
Flannery, Florence,	*Wheaton.*
Fletcher, Emily Lawrence,	*Estherville, Ia.*
Flodin, Bertha Hester,	*Hutchinson, Kan.*
Flodin, Nellie Beulah,	*Hutchinson, Kan.*
Fried, Heber Morris,	*Elkhart, Ind.*
Gage, Portia,	*Wilmette.*
Gibson, A. H.,	*Alma, Kan.*
Gillan, Jennie Isabel,	*Wellington.*

Gould, Christmas,	*Olney.*
Grace, Robert Nicholas,	*Metropolis.*
Griffith, Nina Gertrude,	*Denver, Col.*
Grigson, Blanche Lenora,	*Augusta.*
Gurnee, Clara Lindsey,	*Waukegan.*
Haake, Charles John,	*Ravenswood.*
Haase, Etta Mabel,	*Kearney, Neb.*
Hanmer, Mary Frances,	*Evanston.*
Hansen, Ellen,	*Evanston.*
Hardcastle, Romaine Madelaine,	*Evanston.*
Hardin, Bertha Rae,	*Evanston.*
Harper, Mrs. Cora Ellen,	*Evanston.*
Harris, Alfred Ernest,	*Kentesbury Ford, Eng.*
Hart, Ethel L.,	*Maryville, Mo.*
Haskell, Josephine Nelson,	*Evanston.*
Haugan, Alice Julia,	*Evanston.*
Haugan, Helga Caroline,	*Evanston.*
Hawks, Mildred,	*Atwood.*
Hazleton, Jessie Lucia,	*Chicago.*
Hebbard, Katherine,	*Evanston.*
Hebblethwaite, Mrs. J. L.,	*Evanston.*
Higgins, Alice Aileen,	*Kansas City, Mo.*
Holbrook, Carrie Cole,	*Evanston.*
Holbrook, Frederick Van Tyne,	*Evanston.*
Holliday, Thomas Kinsel,	*Pleasantville, O.*
Hoff, Amelia Anna,	*Evanston.*
Hopwood, Grace Belle,	*Kearney, Neb.*
Howard, Mrs. G. C.,	*Evanston.*
Hubbart, D. C.,	*Monticello.*
Hull, Isaac Harvey,	*Pontiac.*
Hull, Winifred,	*Evanston.*
Hummel, Rose Meta,	*Chicago.*
Hurn, Alice Loretta,	*Clear Lake, Ia.*
Isbester, Ethel Anastacia,	*Evanston.*
Johns, Adalia Philippine,	*Ravenswood.*
Johnson, Frances Lee,	*Holden, Mo.*
Johnson, Victoria Alma,	*Bancroft, Ia.*
Johnson, Winn R.,	
Johnston, Mrs. S. W.,	*Hastings, Neb.*
Jones, Florence,	*Edgewater.*
Jones, Mabel Anne,	*Evanston.*
Jordan, Veda Cordelia,	*Sioux Falls, S. D.*
Keegan, Fannie,	*Chicago.*
Keeton, William Elmer,	*St. Louis, Mo.*

Kimball, Ruth Merrill,	*Evanston.*
Kinnison, Effie,	*Ligonier, Ind.*
Knapp, Mrs. W. H.,	*Evanston.*
Knisely, Mabel,	*Butler, Ind.*
Kramer, Boyd Wesley,	*Freeport.*
Lawrence, Helen Marie,	*Ottawa.*
Leak, Wilbur Samson,	*Pittsburg, Pa.*
Lehle, Anna Louise,	*Chicago.*
Liston, William Warren,	*Evanston.*
Long, Clara Estelle,	*Tampa, Fla.*
Long, William Henry,	*Marshalltown, Ia.*
Lloyd, Myrtle Davis,	*Evanston.*
Lukey, Mrs. J. E.,	*Evanston.*
Main, Burdette L.,	*Bolivar, N. Y.*
Manley, Mary Mariah,	*Mt. Carmel.*
Marceau, Maude Juliet,	*Manteno.*
Marshall, Julia,	*Evanston.*
Marshall, Mary Stevenson,	*Evanston.*
Mercer, Ida Emogene,	*La Moille, Ia.*
Merrilies, Sarah Louise,	*Winnetka.*
Messenger, Maude Elona,	*Spencer, Ia.*
Miller, Alta Dorothy,	*Evanston.*
Millar, Caroline Jane,	*Evanston.*
Minney, Mrs. J. A.,	*Evanston.*
Morgan, Lydia,	*Elwood, Ia.*
Morehart, Nellie Hortense,	*Chanute, Kan.*
Moyer, E. W.,	*Evanston.*
Moyer, Jennie,	*Evanston.*
Murray, Caroline Adams,	*Evanston.*
McCammon, Cora Anna,	*Monticello.*
McCord, Bertha Clendenen,	*Wellsburg, W. Va.*
Macdonald, Alma,	*Evanston.*
MacDowell, G. R.,	(*Heck Hall*).
McClelland, Anna Elizabeth,	*Monona, Ia.*
Machesney, Olive Anna,	*Chicago.*
McMaster, Mabel Eugenia,	*Monroe City, Mo.*
McNutt, Algel Belmont,	*Payson.*
Nally, Hortense,	*Cainsville, Mo.*
Nelson, Nellie Tenbrooke,	*Christman.*
Noble, Pam,	*Evanston.*
North, Lyman Hull,	*Evanston.*
Oakes, Minarose,	*Evanston.*
Odell, Mrs. J. P.,	*Evanston.*
Orchard, Elsie Helen,	*Evanston.*

Orr, Alice,	*Evanston.*
Orr, Eunice Elizabeth,	*Rogers Park.*
Orr, Irma,	*Rogers Park.*
Ott, Aureola,	*Ravenswood.*
Owen, Festus Edward,	*Mokena.*
Pague, Natalie Andrews,	*Chicago.*
Park, Frances Belle,	*Concordia, Kan.*
Patten, Emma Theodora,	*Evanston.*
Paullin, Frances Anne,	*Evanston.*
Paulus, Viola Emma,	*Chicago.*
Peacock, Helen Margaret,	*Morris.*
Penfield, Ruth Sherman,	*Rogers Park.*
Petrie, John H.,	*Evanston.*
Phillips, Charlotte Jane,	*Evanston.*
Pichereau, May,	*Lacon.*
Pitzer, Mrs. Stella J.,	*Leland.*
Porter, Mrs. Albert B.,	*Evanston.*
Porter, Bertha Belle,	*Pecatonica.*
Portman, Blanche,	*Chicago.*
Potter, Edyth M.,	*Evanston.*
Potter, Frank O.,	*Evanston.*
Potter, Harold R.,	*Evanston.*
Price, Stella,	*Evanston.*
Purdon, Myrtle Grace,	*Wahpeton, N. Dak.*
Puterbaugh, Lulu Clara,	*Milledgeville.*
Raymond, Elizabeth,	*Evanston.*
Record, Mary Farwell,	*Evanston.*
Redeker, Walter C.	
Reynolds, Judson W.,	*Oskaloosa, Ia.*
Richardson, Mary Louise,	*Tampico.*
Rodgers, Adelina Patti,	*Charleroi, Pa.*
Rogers, Ada Anna,	*Polo.*
Rosborough, John M.,	*Sparta.*
Ross, Bessie,	*Rogers Park.*
Ruhstadt, Fanny,	*Hammond, Ind.*
Schmoldt, Jeanette Elinor,	*Beardstown.*
Schreiber, Charles Henry,	*Potter, S. Dak.*
Schreiber, Thomas,	*Potter, S. Dak.*
Seeley, John Gordon,	*Aurora.*
Shadbolt, Nellie Aurelia,	*Emmetsburg, Ia.*
Shawl, Mrs. E. E.,	*Evanston.*
Shepard, William Odell,	*Chicago.*
Shepherd, Delmer,	*Lebanon, Ind.*
Sheppard, Margaretha,	*Evanston.*

Sheppard, Virginia Cornelia,	*Evanston.*
Sherburne, Luella Mae,	*Hebron.*
Shinn, Harold Brough,	*Evanston.*
Shotwell, Elizabeth Liddell,	*Evanston.*
Shumway, John,	*Evanston.*
Silliman, Alice,	*Nevada, Ia.*
Simpson, Margaret Dale,	*Evanston.*
Smith, Elsie Harriet,	*Westville, Ind.*
Smith, F. H.	
Sohrbeck, Julia Marguerite,	*Moline.*
Somers, Elsa Louise,	*Chicago.*
Somerville, Helen,	*Evanston.*
Spearman, Harry,	*Evanston.*
Specht, Henry,	*Wilmette.*
Spencer, Edna Olive,	*Centralia.*
Spencer, Hazel Harriet,	*Edgewater.*
Spicker, William,	*Chicago.*
Steele, Victor Hamilton,	*Evanston.*
Sterrett, Marion,	*Washington, Pa.*
Stevens, Charles Edward,	*Rowan, Ia.*
Stevens, Mrs. Maud,	*Philadelphia, Pa.*
Stevenson, Alma,	*Princeton.*
Stevenson, Nell,	*Nebraska City, Neb.*
Stewart, Lucy Shelton,	*Evanston.*
Stoltz, Vinnie Elizabeth,	*Argyle, Minn.*
Stotler, Cora Mabel,	*Evanston.*
Stotler, Harry Walter,	*Evanston.*
Straight, Bessie Emma,	*Evanston.*
Stults, Walter A.,	*Evanston.*
Suhr, Theodore Ludwich Carl,	*Peotone.*
Sweeney, Susan Sanders,	*Rushville.*
Thompson, Margaret,	*Evanston.*
Titus, Marion Estella,	*Grand Forks, N. Dak.*
Todd, Bertha Malvina,	*Milledgeville.*
Twachtman, Emma,	*Chicago Heights.*
Ullrick, Mrs. D. S.,	*Evanston.*
Vance, Mrs. William L.,	*Evanston.*
Wallace, Guy R.,	*Champion, Mich.*
Wallace, William Edward,	*Kenilworth.*
Warrington, Isabel Ormiston,	*Malden.*
Waterbury, Mary Louise,	*Evanston.*
Webster, Josephine Haviland,	*Evanston.*
White, Louise,	*Evanston.*
White, Marie Frances,	*Evanston.*

Whitlock, Laura Case,	*Evanston.*
Williams, Mrs. Lizzie,	*Creston, Ia.*
Williams, Seymour,	*Monticello.*
Wilson, Frances,	*Broken Bow, Neb.*
Wilson, Mrs. L. E.,	*Broken Bow, Neb.*
Wilson, Mrs. R. E.,	*Evanston.*
Witter, John H.,	*Greenview.*
Wood, Eugene Edson,	*Malden.*
Woodley, Helen Jane,	*Evanston.*
Woodley, Ruth Ann,	*Evanston.*
Wulff, Virginia Jeanette,	*Kenosha.*
Zeuch, William Edward,	*Chicago.*

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Anderson, Frank, A.B., DePauw University.	*Chicago.*
Baker, Abram Laurel, A.B., Black Hills College.	*Braceville.*
Barnlund, August William, Ph.B., Northwestern University.	*Donovan.*
Haist, Frederick William, A.B., Northwestern University.	*Evanston.*
Martin, Arba, Ph.B. Northwestern University.	*Evanston.*
O'May, James, A.B., A.M., Simpson College.	*Indianola, Ia.*
Thrall, Victor Worthy, A.B., A.M., McKendree College.	*Lebanon.*
Umpleby, Arthur Leonard, A.B., Hamlin University.	*Chesterton, Ind.*

DIPLOMA COURSE.

SENIOR CLASS.

Allen, Errol V., Kansas Wesleyan University.	*Reamsville, Kan.*
Baker, Olin Summers, Iliff School of Theology.	*University Park, Colo.*
Bowes, John Elliot, Meaford High School.	*Strathnairn, Ont., Can.*
Canfield, Omer T., Academy of Northwestern University.	*Decatur.*
Cheuvront, John Richard, Academy of Northwestern University.	*Shelbyville, W. Va.*
Cleworth, William Charles, Albert College.	*River View.*
Godden, William Charles, Mt. Hermon School.	*Oswego, N. Y.*
Howard, George Crosby, East Maine Conference Seminary.	*Center Montville, Me.*

Mead, George Francis, *Evanston.*
Iliff School of Theology.
Montague, Chester Richard, *Salem, Wis.*
University of State of New York.
Nesbit, Baxter Reed, *Shelburn, Ind.*
Indiana State Normal.
Otis, Ardon William, *Evanston.*
Grand Prairie Seminary.
Randolph, Walter Theodore, *Thomas, Kan.*
Richmond, George McClellan, *San Francisco, Cal.*
Eureka College.
Simpson, Charles Eric, *Evanston.*
Academy of Northwestern University.
Smith, Kelly Lorenzo, *Arlington, Ohio.*
Findlay College.
Sundstrom, Charles Henry, *McKeesport, Pa.*
Teeter, Will H., *Mount Carroll.*
Mount Carroll High School.
Thomas, John Saunders Ladd, *London, Eng.*
University College.
Thompson, Erwine, *Brown City, Mich.*
English Polytechnic School.
Thompson, Jonathan Austin, *Richmond, Mich.*
English Polytechnic School.
Williams, James Michael, *Creston, Iowa.*
Simpson College.

DEGREE COURSE.

MIDDLE CLASS.

Fisher, A. L., Ph.B., *Evanston.*
Northwestern University.
Hovis, Frank Leon, A.B., *Wesley, Pa.*
Grove City College.
McKeever, Lawrence Arthur. A.B., *Salina, Kan.*
Kansas Wesleyan University.
Reynolds, Judson Walker, A.B., *Oskaloosa, Iowa.*
University of Iowa.
Schermerhorn, William David, A.B., *Lincoln, Kan.*
Kansas Wesleyan University.
Smith, Harris William, A.B., *Marion, Ia.*
Cornell College.
Spencer, John Carroll, A.B., *College Park, Cal.*
University of the Pacific.
Stevens, Charles Edward, Ph.B., *Rowan, Iowa.*
Upper Iowa University.

DIPLOMA COURSE.

MIDDLE CLASS.

Atkinson, Robert Kavanaugh, A.B., *Vallejo, Cal.*
Pacific Methodist College.
Barnes, Wilbur Leslie, *Delavan.*
Delavan High School.

Bloomer, Henry M., B.S., *Keithsburg.*
Hedding College.
Callahan, William Eaton, *Evanston.*
Academy of Northwestern University.
Cooper, Judson P., *Saginaw, Mich.*
Dean, Asbury Simpson, *Evanston.*
Morningside College.
Fried, Heber Morris, *Elkhart, Ind.*
Waterloo High School.
Haskins, William Forrest, *Shelbyville, Mo.*
Northern Missouri State Normal School.
Holloway, Barton Cartwright, *Orangeville.*
Academy of Northwestern University.
Idle, Dunning, *Toronto, Canada.*
Victoria University.
Jockisch, Albert Julius *Decatur.*
Illinois State Normal School.
Kilbourne, Kingston Palmer, *Newton, Wis.*
Upper Iowa University.
Kramer, B. W., *Freeport, Ill.*
Lena High School.
Leake, Leonard Ralph, *Lone Rock, Wis.*
Wisconsin State Normal School.
Little, Paul, *Chicago.*
Belfast College.
Lumsden, Ernest Cornelius, *Shedden, Ont.*
St. Thomas Collegiate Institute.
Miner, Charles Henry, LL.B., *Gilroy, Cal.*
University of Nebraska.
Minney, Jacob Luther, B.S., *Evanston.*
Ohio Wesleyan University.
Muhleman, William Godfrey, *Evanston.*
Northwestern University.
Murray, Roderick, *Joliet, Ill.*
Toronto Bible Training School.
Peterson, Robert Peter, *Tacoma, Wash.*
Puget Sound University,
Rush, Raymond, A.B., *Mt. Vernon, O.*
Baldwin University.
Roe, George Bradley, *Humboldt, Tenn.*
Peabody Normal School.
Shawl, Elmer Edmund, *Evanston.*
Grand Prairie Seminary.
Shepherd, Delmer, *Lebanon, Ind.*
Lebanon High School.
Stanley, Whitman Philo, *West Berkshire, Vt.*
Wesleyan University.
Stockham, Almon, B.L., *Hampden, O.*
Baldwin University.
Tyler, William Augustus, M.D., *Curtis, Neb.*
Columbian University.
Wood, Arthur Clark, A.B., *Hampton.*
Hedding College.

DEGREE COURSE.

JUNIOR CLASS.

Brannum, Thomas Perry, B.S., McKendree College.	*Villa Ridge.*
Eldridge, John Moulds, A.B., Cornell College.	*Shellsburg, Ia.*
Gilliland, Clarence V., A.B., Cornell College.	*Kenwood Park, Ia.*
Holliday, Thomas K., A.B., Ohio Normal University.	*Pleasantville.*
Leatherman, Irvin John, Ph.B., Winfield College.	*Winfield, Kan.*
MacInnis, George Kenneth, A.B., Lawrence University.	*Port Washington, Wis.*
Nakagawa, Kunisabura, Doshiska College.	*Tokyo, Japan.*
Rummell, Owen W., A.B., De Pauw University.	*Spencerville, Ind.*
Smith, Frank Herron, A.B., Kansas University.	*Lawrence, Kan.*
Swan, Henry M., Ph.B., Northwestern University.	*Evanston.*
Warriner, Alfred Sumner, A.B., Kansas Wesleyan University.	*Goodland, Kan.*
Welch, John W., A.B., A.M., Northwestern University.	*Evanston.*

DIPLOMA COURSE.

JUNIOR CLASS.

Adams, Selden Connor, Northwestern University.	*Chicago.*
Boag, Charles Wesley, Butler High School.	*Butler, Mo.*
Burnard, Cuthbert, American University of Harriman, Tennessee.	*London, England.*
Carlin, George Wyle, Hedding College.	*Evanston.*
Chivington, Otis L., Ohio Normal.	*Wheeler, Ind.*
Clerke, C. Harold, Toronto University.	*Toronto, Can.*
Cook, Francis P., A.B., Carleton College.	*Potosi, Mo.*
Gibson, Arthur H., Campbell University.	*Alma, Kan.*
Kafer, Henry H., Northwestern University.	*Glidden, Ia.*
Lapp, George Jay, Elkhart Institute.	*Ayr, Neb.*
Liston, William W., Fremont Normal.	*Hooper, Neb.*

McDowell, George R., Allegheny College.	*Meadville, Pa.*
McNutt, Alger Belmont,	*Payson.*
Parker, B. Earle, De Pauw University.	*Ashley, Ind.*
Suhr, Theo. Ludwich Carl, Dixon College.	*Peotone.*
Thompson, Elmer Elsworth,	*Sonona, Cal.*
Williams, Seymour, A.B., University of Illinois.	*Monticello.*

SPECIAL STUDENTS.

Freeman, Milton Stearns, B.S., B.S.T., Schuylkill Seminary.	*Allentown, Pa.*
Howard, Mrs. Faye, East Maine Conference Seminary.	*Kingman, Me.*
Klinefelter, Miss, Iowa State Normal.	*Belle Plaine, Ia.*
Schaeffer, S. Carlysle, York College.	*Washington, D. C.*
Schermerhorn, May D., Kansas Wesleyan University.	*Lincoln, Kan.*
Spencer, Edna Olive,	*Centralia.*
Weiffenbach, Eugene, A.B., Illinois Wesleyan University.	*Alton.*
Thompson, Leon Marsh, Lamar College.	*Appleton City, Mo.*

SWEDISH THEOLOGICAL SEMINARY.

FOURTH CLASS.

Anderson, August,	*Escondido, Cal.*
Burdell, Joseph N.,	*Boston, Mass.*
Edwards, Fritz E.,	*Rockford.*
Dahl, Edwin S.,	*Des Moines, Ia.*
Pearson, Nels,	*Chicago.*
Sunstrom, C. H.,	*McKeesport, Pa.*
Westerberg, T. J.,	*Chicago.*
Wohlander, Carl,	*Keeran, Tex.*

THIRD CLASS.

Erickson, Gustaf,	*Hobart, Ind.*
Rylander, A. C.,	*Chicago.*
Strandell, A. J.,	*Worcester, Mass.*
Werner, G. A.,	*Evanston.*

SECOND CLASS.

Bard, Nels,	*Chicago.*
Johnson, Albert,	*New York.*
Johnson, John A.,	*Racine, Wis.*
Johnson, Ossian,	*New York.*

FIRST CLASS.

Adrian, T. J.,	*Scandia, Kan.*
Lundberg, O. J.,	*West Hill, Neb.*
Nordberg, G.,	*Kingsbury, Cal.*
Sandell, H. R.,	*West Pullman.*

NORWEGIAN-DANISH THEOLOGICAL SEMINARY.

Brudevold, Knut,	*Valley City, N. D.*
Erickson, Edward,	*Chicago.*
Hanson, Carl W.,	*Chicago.*
Haver, Hans S.,	*Perth Amboy, N. J.*
Oakland, Bert,	*Kenosha, Wis.*
Ofstie, Hans A.,	*Viking, Wis.*
Olsen, Melvin L.,	*Brosington, Wis.*
Peterson, Peter M.,	*Evanston.*
Peterson, Robert P.,	*Evanston.*
Scheverines, Carl W.,	*Stoughton, Wis.*
Tallefson, Theodore M.,	*Brooklyn, N. Y.*
Wang, John J.,	*Minneapolis, Minn.*

LIST OF

DEGREES AND PRIZES

FOR

THE YEAR 1902–1903.

DEGREES CONFERRED IN 1902.

HONORARY DEGREES CONFERRED

NOVEMBER 28, 1902.

Doctor of Laws.

Doctor Adolf Lorenz,
Professor of Surgery in the University of Vienna.

JANUARY 28, 1903.

Doctor of Laws.

James Barr Ames,
Dean of the Law School of Harvard University.

William Williams Keen,
Professor of Surgery in the Jefferson Medical College.

Albert Benjamin Prescott,
Dean of the School of Pharmacy of the University of Michigan.

Doctor of Science.

Edward Cameron Kirk,
Dean of the Dental School of the University of Pennsylvania.

DEGREES IN COURSE.

Bachelor of Arts.

Baird, Malcolm Heston,
Balmer, Edwin,
Beardslee, Sadie,
Bronson, Edna Myrene,
Burke, Harold Webster,
Campbell, Robert James,
Crawford, Wilson Martyn,
Haist, Frederic William,
Hart, Stephen Price,
Kipp, Ray Bassett,
Knott, Thomas Albert,
Low, Isabel Ruth,
Lyford, Lucy,
Melzer, Lulu Katie,
Owen, Festus Edward,
Pratt, Ernest Larned,
Rawlins, Frances Christine,
Rea, Harry Andrew,
Scott, Mary Rankin,
Smith, Arthur Hensley,
Ullrick Delbert Sylvester,
Ward, Stanley,
Welch, Ida,
West, Frank Harry,
Williams, Horace Blake.

Bachelor of Philosophy.

Anderson, Jennie Matilda,
Browrink, John Edward,
Campbell, Arthur William,
Campbell, Ira Robert,
Carlson, Alma Sophia,
Clements, Louis,
Dietz, Cyrus Edgar,
Ely, Harriott Belle,
Enwall, Hasse Octavius,
Fahs, Helen May,
George, Albert Edward,
Goodrich, Ethel Leota,
Hammond, Allen Odell,
Hanson, Henry,
Harbaugh, Harriet Elizabeth,
Harden, Sarah Voorhees,
Henderson, Robert Halsey,
Hill, Harry Oliver,
Holmes, Marion,
Howell, Lillien Edna,
Kincaid, Leslie Pearl,
Moore, George Albert,
Oldfield, William Alfred,
Paarlberg, Mary,
Parkinson, George Hathaway,
Scheiner, Frank Harry,
Sharp, Frances Margaret,
Stewart, George John Craig,
Struggles, Eva,
Swan, Henry Marcus,
Sweitzer, Harry Ellsberth,
Thompson, Sadie Abia,
Woolson, Ruth,
Wadden, Mary,
Yoshioka, Ghen-Ichiro.

Bachelor of Science.

Bayne, Lilian Florence,
Benham, Alice Marie,
Briggs, George Weston,
Cater, George Henry,
Crouse, Edna Davis,
Crumpacker, Shepard J.,
Dunlap, Ralph VanBuren,
Elliott, Arthur James,
Gooch, Rhoda May,
Green, Charles Henry,
Hanmer, Edward James,
Jewel, Jed Lake,
Knox, Arthur Howell,
Pierson, Ward Wright,
Sanders, Albert David, Jr.,
Seed, Maurice Joy,
Smiley, Joseph Ernest,
Smith, Henman Bresee,
Stowe, Esther Louisa,
Taylor, Albert Hoyt,
Thomas, Cecil Elizabeth,
Townsend, Oliver Otis,
Ward, Sidney George,
Weese, Harry Ernest,
Williams, David Irwin,
Zilisch, Ina.

Bachelor of Letters.

Barnes, Io,
Park, May Eunice,
Seabrook, Angelina Emily,
Shuman, Grace Ethel,
Stevenson, Olla,
Sutter, Minnie May.

37 -1

Master of Arts.

Baker, John Clark,
Balmer, Helen Clark,
Buntain, Cassius M. Clay,
Hoag, Ernest Bryant,
Knox, Susan Mixter,
Parks, Samuel Shaw,
Welsh, John Wallace,
Wilson, Jackson Stitt,
Minear, Augustus Clay.

Master of Philosophy.

Hansen, Herbert Conrad,
Neiglick, Elsa,
Rawll, Ruby Eleanor,
Terry, Arthur Guy,
Thompson, Mary Edith.

Master of Science.

Aderhold, Thomas Maze,
Porter, Royal Arthur,
Tayler, Mary Ellen,
Thayer, Effie Ellen.

Master of Letters.

Williams, Abbie Florence.

Doctor of Medicine.

Anderson, Daniel Herbert,
Barlow, Nathan,
Bo Dine, Charles Delos,
Bold, Francis James, B.S.,
Bonthuis, Fred A.,
Bracken, Willard S.,
Bramhall, Robert Nicholas, B.S.,
Brereton, Hugh Albert,
Brown, Edwin Newton,
Cairns, Rolla Ullin,
Cantonwine, Eutellis A.,
Cantril, Albert Hadley,
Carr, James Gray, Jr.,
Carriel, Howard Turner,
Casey, James,
Cheney, Volney Schafer,
Cherry, Herbert Johnson,
Clemensen, Peter Christian,
Cox, Franklin Emanuel,
Crossley, Elijah Rockhold, B.S.,
Curry, Norman Dixon, B.S.,
Dale, Harry Wilford,
Darragh, Edmiston, Jr.,
Day, Minor Harold,
Day, Wilton Andrews,
Dodge, Horace Colburn,
Dowling, Jay Thomas,
Drennan, Gilbert D.,
Dudley, Homer Daniel,
Dunn, John Clement,
Egelhoff, William Christian Henry,
Eisenstaedt, Moses,
Engelbach, William,
Fraligh, Clarence Neil, B.S.,
Galland, William Herbert,
Gibbons, Charles Kimball,
Grace, Frank Gaines,
Greene, Roland A.,
Hansen, Andrew Clinton,
Harter, Virgil Henry,
Haugan, Otto Martin, A.B.,
Haury, Richard Samuel,
Hecker, William, A.B.,
Higgins, Allen Fitch, B.S.,
Hill, Charles, M.S., Ph.D.,
Hill, Frank Albert,

Hoag, Ernest Bryant, B.S., A.B.,
Horswell, Ulysses Murton,
Hoyt, Benjamin F.,
Jones, Hugh Owen,
Jones, Henry Robert,
Jones, Richard W.,
Jones, Walter Clinton, A.M.,
Kheiralla, George Ibrahim,
Kleutgen, Arthur Charles,
Kober, Augustus Frederic, Jr.,
Koehler, Gottfried Henry Charles,
Koobs, Herman J. G.,
Lamborn, William Henry,
Legnard, John B., Jr.,
Linebarger, Isaac, Jr.,
Loving, Royal Shepherd,
Machesney, William Nelson,
McCauliff, Guy Thomas,
Miller, Hugh Munro,
Morgan, Charles Edwin,
Morton, Dwight Frame, A.B.,
Nichols, Roscoe Townley,
Nowlin, John Herbert,
Oakley, Robert William,
Palen, Charles,
Parker, George William, Ph.B.,
Parkhurst, Charles Leonard, B.S.,
Patterson, Robert Wilson,
Pestal, Joseph,
Phillips, Albin Blackmore, B.S.,
Poindexter, Frederic Marcellus,
Roberts, Harold Hargreaves,
Rogers, Earl Bertram,
Rohrlack, Christopher Herman Otto,
Russell, Frank Horatio,
Sasvil, Ernest Max,
Skelsey, Albert Wesley,
Skoog, Andrew Leonard,
Snyder, Craig Richard,
Snyder, Karl Forbes,
Taylor, George Gordon,
Walsh, Groesbeck,
Warriner, Winsor W.,
Weeks, Mac Clarey,
Williams, Arthur Edward, B.S.,
Winslow, Rollin Curtis,
Wray, Clarence McCarty,
Younger, Charles Benjamin.

Bachelor of Laws.

Adcock, Edmund David, A.B.,
Anderson, William France, A.B.,
Ashton, Edgar Lowell, A.B.,
Buntain, Cassius M. Clay, A.B.,
Cermak, Jerome Jeremiah,
Cleveland, Frank Clayton, Ph.B.,
Crosby, Emery William,
Davis, Abel,
Dickinson, William Reynolds, A.B.,
Dietz, Godlove Orth,
Dietz, Cyrus Edgar,
Fischer, Edgar Bernhardt,
Frank, Charles Sigmund,
Freeman, Charles Yoe, A.B.,
Green, Charles Henry,
Hadley, Charles William, B.L.,
Haight, George, B.L.,
Hollock, Roland Martin,
Holste, August Fred, A.B.,
Honneger, Peter Gottlieb,
Hoy, Eugene Richard,
Jeffreys, Ivor, A.B.,
Lowrie, Alfred Richard, A.B.,
Mauzy, Amon,
McClure, Robert Samuel, A.B.,
McDonald, John Peter,
McNulta, Donald,
Miller, William Edwin, B.L.,
Moore, Edward Coleman, A.B.,
Oppenheim, Sidney,
Pines, George Sergius,
Robinson, Warner Hunt,
Rogers, Roy Leon,

Smiley, Edmund Pillsbury, A.B.,
Thomson, Charles Marsh, A.B.,
Tompkins, Alfred Foote,
Topliff, Samuel, A.B.,
Turnell, Charles Allen,
Tyrrell, Pierce Crawford,
Weinfeld, Charles,
Witter, James Franklin, A.B., A.M.,
Weston, Herbert Mantor, Ph.B.

Pharmaceutical Chemist.

Dorland, Clareld Edison,
Ellenbaum, Frank Henry,
Fischnar, John Ferdinand,
Gilmore, Harry Alexander,
Hartrick, Louis Eugene, B.S.,
Hartrick, Guy Russell, B.S.,
Hegarty, Charles Kiely,
Holm, Marinus Larsen,
Junker, William Nichols,
Knaus, Henry William,
Knoth, Melville William,
Koenigstein, Arthur J.,
Layer, Franklin Robert,
Parsons, John F.,
Piper, Bernyna Celestial,
Prindle, Charles Walley,
Schroeder, Albert Frederick,
Siebel, John Ewald, Jr.,
Sparks, George Augustus,
Stoddard, Burton Harvey.

Graduate in Pharmacy.

Abbett, Arthur Melville,
Arnette, Floyd Henry,
Brown, Charles Andrew,
Cady, Clarence William,
Carlyon, Roscoe Edward,
Cummings, Thomas Francis,
Dorland, Clareld Edison,
Edlund, Andrew Gustaf,
Fischnar, John Ferdinand,
Forbes, Warren Albert,
Galloway, John Bertram,
Gill, Harvey James,
Gilmore, Harry Alexander,
Gleason, Matthew Patrick,
Gunnell Charles Basil,
Hartrick, Guy Russell, B.S.,
Hartrick, Louis Eugene,
Heller, George Washington,
Hegarty, Charles Kiely,
Henry, Herbert Arthur,
Holm, Marinus Larson,
Hoppe, Frederick,
Jennisch, Johannes Immanuel,
Johnson, Leonard Alfred,
Junker, William Nichols,
Kies, John Leo,
Knoth, Melville William,
Knaus, Henry William,
Koch, Henry Andrew,
Koenigstein, Arthur J.,
Layer, Franklin Robert,
Lutyen, William Francis,
Lytle, Herbert Jolly,
Malarkey, Clara Mildred,
McClugage, John Jordan,
McCarthy, Joseph Leo,
Miller, Oliver Jeremiah,
Milligan, Edwin Lesley,
Mills, Earl Charles,
Newell, Duane J.,
Packard, Franklin Hiram,
Parsons, John F.
Piper, Bernyna Celestial,
Rasch, Christian Albert,
Rickert, Willard Miller,
Rosevear, Edward John,
Ross, Wilbur Wesley,
Runkel, Julia,

Schneider, Julius Emil,
Schroeder, Albert Frederick,
Secor, Herbert Everett,
Shutts, Arthur Burton,
Siebel, John Ewald, Jr.,
Sloan, Victor Alan,
Smith, Wayne Craddock,
Stoddard, Burton Harvey,
Sutton, Robert Reay,
Sweeney, James Thomas,
Townsend, Charles Franklin,
Turkington, Edward Clyde,
Weinkauff, Herman,
Williams, Howard Leslie,
Worley, Guy Wallace.

Doctor of Dental Surgery.

Adams, Arthur Garfield,
Allan, Maxwell Sedgwick,
Allison, Richard John,
Baker, Josiah William,
Bales, Emmor S.,
Ballou, Louis L.,
Barber, Henry Edward,
Bascombe, Clifford Henry,
Baumgarth, Henry,
Behm, John William,
Bell, J. Rex,
Berkey, Hugh Thomas,
Bilek, Joseph Bartley,
Bixby, Raymond Lee,
Bliss, Gertrude Richards,
Blount, Anna Bailey,
Blumenthal, Edwin Martin,
Bohrer, Ernest Everett,
Bollenbach, George William,
Bolster, Vinton Vazey,
Bond, John Lafferty,
Borcher, Frederick John Theo,
Boyd, Derward James,
Brandt, Carl Rudolph Max,
Brandt, Claude,
Brown, James Scott,
Burrill, Chester Leslie,
Bouche, Louis Franklin,
Bushnell, Charles William,
Caldwell, Wm. Elliot Hughes,
Callow, Joseph Edward,
Campbell, Peter Alexander,
Childs, Ralph Sherman,
Colborn, Lewis Paul,
Constable, Roy Verner,
Copple, Plenna Reuben,
Corbett, James Clinton,
Corbin, B. J.,
Cory, William M.,
Cromb, John Rutherford,
Davis, Charles Everett,
Dorothy, Michael Joseph,
Dryden, James Mair,
Dupuy, Thomas Mille,
Eaton, Charles David,
Ellis, Arthur J.,
Ellis, William Harry,
Engel, George Lewis,
Fisher, Frank Edward,
Fleming, James Clinton,
Foster, Charles Gelutiah,
Fuller, Clark Anthony,
Galligan, Thomas Francis,
Geiger, Emil Daniel,
Gilchrist, Harry Alexander,
Gilchrist, Mont Rankin,
Gill, John Hunter,
Gordon, Howard E.,
Griffith, Edwin Llewellyn,
Goodman, George Oscar,
Guerne, Alfred Augustus,
Hadley, Chauncey Joseph,
Haffa, Frank Arthur,
Hall, T. Devereaux,
Hammond, Roscoe Brant,
Hancock, Herbert Harold,

Hardie, John James,
Harris, Dr. Sara,
Hayes, Ira Paul,
Hemphill, Wilbur J.,
Headley, Sydney,
Hess, John Edward Burt,
Hicks, William Herbert,
Himes, Jennie Eva,
Hodge, Hugh Wallace,
Howell, Herbert Roosevelt,
Hoxie, Charles Ray,
Hullhorst, Lewis,
Jennings, Geo. C.,
Jones, John Paull,
Johnson, Charles Emil,
Kaser, Elmo Hiley,
Keller, David H.,
Kennedy, George Alexander,
Kenyon, Ronald Bush,
Kernan, Joseph Francis,
Kitchen, Curtis John Burwell,
Kleinecke, Louis Christian,
Landess, Eugene Shofner,
Lane, Albert Leslie,
Lasker, Herman,
Lippert, Joseph Simon,
McAllister, Renaldo Eugene,
McCallum, Frederick William,
McMaster, Glenn A.,
McStay, Earl Edward,
McVay, Augustus Bentley,
Macpherson, Egbert Earl,
Maginnis, Eugene,
Malony, William Henry,
Matheson, George Angus,
Maurer, Nellie Ethel,
Michalski, Frank Alfonso,
Meyer, Frank Appelman,
Miller, Lewis Mark,
Minnis, Harry Lee,
Moody, George Roy,
Mullican, Lorenza Alverado,
Mueller, Frida Emilie,
Munson, Robert Hoyle,
Nelson, William,
Niswander, Charles Harvey,
O'Brien, John Dennis,
Opland, Joseph Segwardt,
Parkinson, David Talbott,
Parks, Pearl,
Parks, Robert Smith,
Piner, Henry Edward,
Polin, Oscar Martin,
Pollock, William Meyers,
Pool Hardy Fayette,
Poundstone, George Corwin,
Price, Frederick Orion,
Proctor, William Orson,
Reese, Elmo David,
Reichert, Charles Scott,
Richards, William Freeman,
Ritson, Joseph Henry,
Sanford, Charles Wesley,
Shill, John Edward,
Shless, Abe Lewis,
Silverberg, Henry M.,
Sinn, Jens Johannes,
Smith, Daniel Hallie,
Smith, George Hill,
Spencer, Edward Albert,
Spier, Ernest Arthur,
Spindlo, Thomas Henwood,
Stanley, William Raymond,
Stevens, Wirt Allen,
Stokes, John Francis,
Swigert, George Orton,
Thomas, David Ellis,
Thomas, Edward Smith,
Thomas, Lewis Edwin,
Thompson, Edwin Cook,
Tower, Ray Leighton,
Tucker, Carl Allen,
Tyler, Alva Duane,
Uglow, Stanley John,
Ulvestad Oliver Martin,
Vaughan, John Beverly,
Waddell, William M.,
Weaver, Harold Townsend,

Weir, William Arnold,
Weyhe, Henry Theodore,
Wilbur, Charles Oren,
Wildermuth, Louis Frederick,
Williams, Fred Hayes,
Williams, Leonard Alphonzo,
Wolfe, Edwin Ferdinand,
Zederbaum, George,
Ziegler, Horace Allen,
Zimmermann, Henry T.

Doctor of Medicine (Women's Medical School).

Baumann, Alice Heseltine,
Blakelidge, Rose Mary,
Evans, Rebecca Mortimer,
Gaston, Mary Adelaide,
Lantz, Ida Rebekah,
Lotto, Margaret Frederick,
Metzner, Alice Pearl, M.D.,
Rutledge Frances Ettrican,
Tallmon, Susan Barbara, Ph.B.,
Upton, Mabel Mary.

Graduate in Music.

Haake, Charles John,
Hull, Winifred.

PRIZES AND HONORS.

IN THE COLLEGE OF LIBERAL ARTS.

The Kirk Prize, for writing and pronouncing the best English Oration: Frank Harry West.

The Cleveland Prizes, for Excellence in Declamation: First prize, Arthur Lorenzo Gates; second prize, George Benjamin Woods.

The Gage Prizes, for Excellence in Debate: First prize, George Thomas Palmer; second prize, Frank Oscar Smith; third prize, George Benjamin Woods.

The Harris Prize, in Political and Social Science: Maurice Joy Seed.

The Patten Prizes, for Excellence in Oratory: First prize, Frank J. Milnes; second prize, Arlo Ayres Brown; third prize, John Porcius Faulkner.

IN THE LAW SCHOOL.

The Callaghan Prize: Charles Toe Freeman, A.B.

IN THE PHARMACY SCHOOL.

The Gilpin, Langdon & Co. Prize: Harry B. Felts.

GENERAL ALUMNI ASSOCIATIONS.

FOR THE YEAR 1902–1903.

COLLEGE OF LIBERAL ARTS.

President—J. T. HATFIELD, '83.
Vice-President—V. K. FROULA, '98.
Corresponding Secretary—G. A. FOSTER, '81.
Recording Secretary—J. F. OATES, '93.
Treasurer—M. C. BRAGDON, '70.

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It is desired that alumni of the College of Liberal Arts should keep the Recorder of Alumni informed as to any biographical items of interest, especially changes in address, and notices of the death of any of the graduates. Address, Recorder of Alumni, Orrington Lunt Library, Evanston.

PHI BETA KAPPA.

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Maurice J. Seed, '02.
Frances M. Sharp, '02.
Grace E. Shuman, '02.
Mary Wadden, '02.

SUMMARY OF STUDENTS.

College of Liberal Arts:				
Graduate Students			57	
Fellows		5		
Resident Graduates		43		
Non-resident Graduates		9		
Undergraduate Students			712	
Candidates for Bachelor's Degree		590		
Students not Candidates for a Bachelor's Degree		122		
Specials	88			
Admitted from other Departments	34			
				—769
Medical School:				
Fourth Year			139	
Third Year			148	
Second Year			137	
First Year			121	
Special Students			62	—607
Law School:				
Resident Bachelors of Law				
Third Year			53	
Second Year			30	
First Year			66	
Special Students			35	—184
School of Pharmacy:				
Candidates for Degree of Pharmaceutical Chemist			33	
Candidates for Degree of Graduate in Pharmacy			205	—238
Dental School:				
Third Year			200	
Second Year			164	
First Year			207	—571
School of Music				—268
Garrett Biblical Institute:				
Senior Class			31	
Middle Class			37	
Junior Class			29	
Special Students			8	—105
Norwegian-Danish Department				12
Swedish Theological School				20
				2774
Deduct names counted twice and not previously deducted				43
Total number of Students				2731
Students in the Non-Degree Conferring Schools:				
Northwestern University Academy			485	
School of Oratory			177	
Grand Prairie Seminary			298	

INDEX.

Absences, 140.
Academies, 270, 271, 272.
Accredited Schools, 61.
Advisers, 66.
Admission requirements,
  In College of Liberal Arts, 53.
  In Medical School, 177.
  In Law School, 228.
  In School of Pharmacy, 242.
  In Dental School, 249.
  In Garrett Biblical Institute, 274.
Advanced Standing, Admission to,
  In College of Liberal Arts, 65.
  In Medical School, 178.
  In Law School, 228.
  In Dental School, 249.
Alumni Associations, 372.
American School of Classical Studies, 153.
Anatomy, 187, 252.
Astronomy, 72.
Athletics, 146.

Bacteriological Laboratory, 194.
Bacteriology, Instruction in, 194, 255.
Bible, 72.
Botanical Museum, 162.
Botany, 74.
Buildings, 156, 175, 227.

Chapin Hall, 158.
Charter, 38.
Chemical Laboratory, 164.
Chemistry, 76, 183, 253.
Christian Associations, 150, 225.
College of Liberal Arts, 48.
  Faculty of, 48.
  Medical Studies in, 134.
  Students of, 285.
  Theological Studies in, 135.
Committees, 50.
Commerce, 82.
Consultation Hours, 51.
Correspondence Work, 65.
Courses of Instruction, 72, 183, 229, 242, 250, 261, 274.

Danish, 118.
Dearborn Observatory, 156.
Degrees Conferred in 1902, 363.
Degrees,
  In College of Liberal Arts, 142.
  In Dental School, 258.
  In Law School, 235.
  In Medical School, 179.
  In School of Pharmacy, 244.
  In Schools of Theology, 276.
Dental School, 248.
Doctor of Philosophy, Degree of, 144.
Dormitory, 158.

Economic Geology, 90.
Economics, 77.
Electives, 69.
Elocution, 84.
Engineering, 136.
English Language, 85.
English Literature, 87.
Ethics, 113.
Examinations,
  In College of Liberal Arts, 60, 140.
Expenses,
  In College of Liberal Arts, 166.
  In Medical School, 224.
  In Law School, 238.
  In Music School, 267.
  In School of Pharmacy, 246.
  In Dental School, 258.
  In Theological School, 279.

Faculties, Members of, 19.
Faculty of Liberal Arts, 48.
Fayerweather Hall of Science, 156.
Fees (see Expenses).
Fellows, 285.
Fellowships, 151.
Fisk Hall, 157.
French, 127.

Garrett Biblical Institute, 273.
Geology, 90.
Geological Laboratory, 164.
German, 92.

Gothic, 95.
Government, 37, 146.
Grades of Scholarship, 141.
Graduation (see Degrees).
Graduate Work, 139.
Greek, 97.
Gymnasium, 158, 165.

Hebrew, 99.
Histology, 189, 274.
History, 99.

Italian, 130.

Laboratories, 163.
Latin, 105.
Law School, 226.
Libraries, 159, 176, 278.
Literary Societies, 150, 278.
Loans, 168, 279.
Logic, 120.

Majors, 70.
Master's Degree, 143.
Mathematics, 107.
Medical School, 170.
Medical, Preparatory Course, 177.
Memorial Hall, 158.
Mineralogy, 111.
Minors, 70.
Moral and Social Philosophy, 113.
Museums, 161.
Music Hall, 157.
Music, Instruction in, 115.
Music, School of, 260.
Musical Organizations, 148.

Norwegian, 118.
Norwegian-Danish Theological School, 280.

Observatory, Astronomical, 160.
Oratory, School of, 37.
Organization, 37.

Paleontology, 91.
Pearsons Hall, 158.
Pedagogics, 118.
Pharmacy, School of, 239.
Philosophy, 120.
Physiology, 191, 252.
Physical Culture, 126.
Physics, 123.
Physical Laboratory, 164.
Political Economy, 77.
Preparatory Schools, 270, 271.
Prizes, 153, 237.
Professional Studies, 134.
Programs of Study, 67.
Psychology, 120.
Psychological Laboratory, 165.

Records, 141.
Registration, 138.
Religious Worship, 149.
Required Courses, 68.
Residence, 66.

Scholarships, 152, 237.
Self-support of Students, 168.
Social Affairs, 149.
Societies, 150.
Spanish, 130.
Special Students,
  In College of Liberal Arts, 65.
  In Law School, 228.
Statutes, 43.
Student Organizations, 150.
Students, Catalogue of,
  In College of Liberal Arts, 285.
  In Medical School, 305.
  In Law School, 322.
  In School of Pharmacy, 328.
  In Dental School, 334.
  In School of Music, 348.
  In Schools of Theology, 355.
Summary of Students, 376.
Swedish, 130.
Swedish Theological School, 281
Swift Hall, 157.

Theology, Schools of, 273.
Trustees, 15.

University Council, 36.
University Hall, 156.
University Settlement, 151.

Wesley Hospital, 210.
Willard Hall, 158.
Women, Admission of. (See Residence.)

Zoölogy, 133.
Zoölogical Laboratory, 165.

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